

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY		OXY USA INC	
WELL		ANSHUTZ A-1	
FIELD		SANTA FE NORTH	
COUNTY		HASKELL	
STATE		KANSAS	
Permanent Datum Log measured from Drilling measured from	GL	Elev. 2945.0 ft	
	KB	D.F. 2958.0 ft	
		G.L. 2945.0 ft	
Date	21-Jul-12		
Run No.	ONE		
Depth - Driller	5663.00 ft		
Depth - Logger	5651.0 ft		
Bottom - Logged Interval	5642.0 ft		
Top - Logged Interval	1818.0 ft		
Casing - Driller	8.625 in @ 1819.0 ft		
Casing - Logger	1818.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.5 ppq	60.00	s/qt
PH	9.00 pH	5.6	cp/m
Source of Sample	FLOW LINE		
Rm @ Meas. Temperature	0.770 ohmm @ 90.00 degF		
Rmf @ Meas. Temperature	0.85 ohmm @ 72.00 degF		
Rmc @ Meas. Temperature	1.000 ohmm @ 72.00 degF		
Source Rmf	MEAS	MEAS	
Rm @ BHT	0.41 ohmm @ 148.0 degF		
Time Since Circulation	13.7 hr		
Time on Bottom	21-Jul-12 15:10		
Max. Rec. Temperature	148.0 degF @ 5651.0 ft		
Equipment	10546696	LIBERAL	
Recorded By	C. HAVERKAMP		
Witnessed By	D. PRATT		

COMPANY	OXY USA INC
WELL	ANSHUTZ A-1
FIELD	SANTA FE NORTH
COUNTY	HASKELL
STATE	KANSAS
API No.	15-081-21980
Location	2280' FSL & 2310' FWL
Other Services:	MICRO DSNT / SDLT BSAT

Fold here

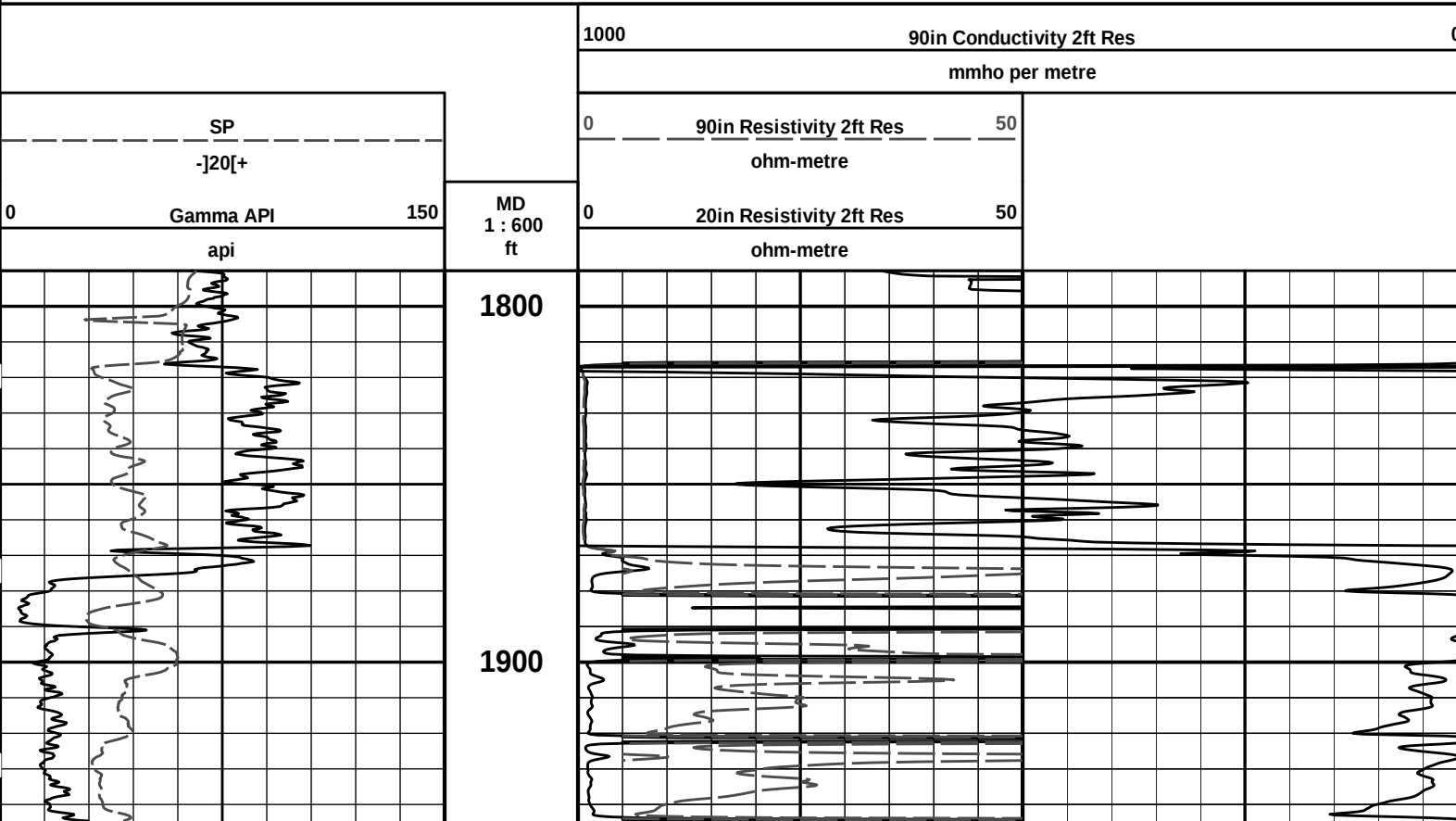
Service Ticket No.: 9502781						API Serial No.: 15-081-21980						PGM Version: WL INSITE R3.6.0 (Build 3)																	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																	
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole									
Depth-Driller																													
Type Fluid in Hole																													
Density		Viscosity																											
Ph		Fluid Loss																											
Source of Sample												RESISTIVITY EQUIPMENT DATA																	
Rm @ Meas. Temp				@				@				Run No.		Tool Type & No.				Pad Type				Tool Pos.				Other			
Rmf @ Meas. Temp.				@				@				ONE		ACRT				N/A				CENT.				N/A			
Rmc @ Meas. Temp.				@				@						I5059_S8385															
Source Rmf		Rmc																											
Rm @ BHT				@				@																					
Rmf @ BHT				@				@																					
Rmc @ BHT				@				@																					
EQUIPMENT DATA																													
GAMMA						ACOUSTIC						DENSITY						NEUTRON											
Run No.		ONE				Run No.						Run No.						Run No.											
Serial No.		11048627				Serial No.						Serial No.						Serial No.											
Model No.		GTET				Model No.						Model No.						Model No.											
Diameter		3.625				No. of Cent.						Diameter						Diameter											
Detector Model No.		T-102				Spacing						Log Type						Log Type											
Type		SCINT										Source Type						Source Type											
Length		8"				LSA [Y/N]						Serial No.						Serial No.											
Distance to Source		10'				FWDA [Y/N]						Strength						Strength											

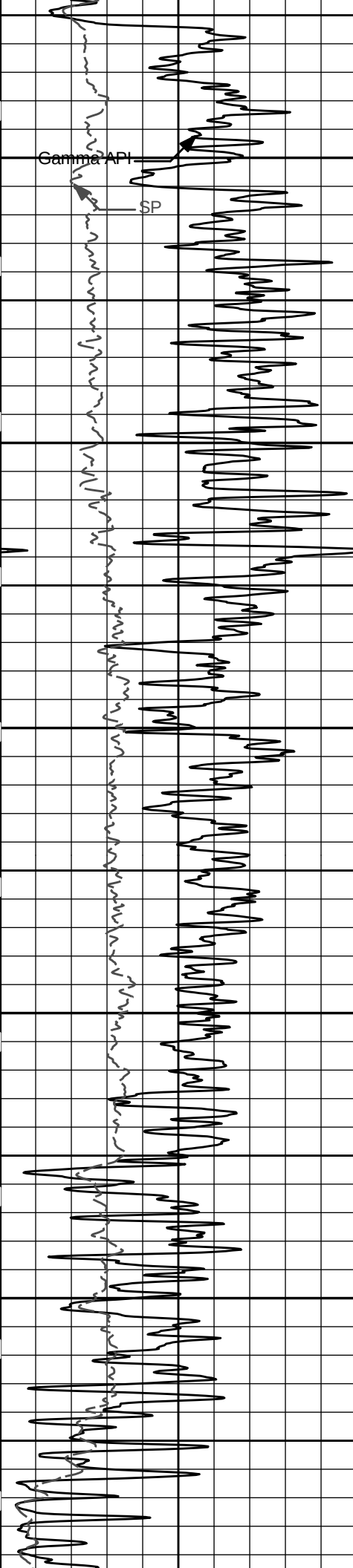
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5651'	1818'	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: SP-GTET-DSNT-SDLT-BSAT-ACRT RAN IN COMBINATION.														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
CHLORIDES REPORTED AT 5500 MG/L.														
LCM REPORTED AT 2 LB/BBL.														
POST TOOL SURVEYS NOT PERFORMED PER CUSTOMER REQUEST.														
YOUR CREW: P. COBLE, V. JAIME														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES. LIBERAL, KS 620-624-8123														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
HALLIBURTON														

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Plot Time: 21-Jul-12 17:00:51
Plot Range: 1790 ft to 5658.08 ft
Data: ANSHUTZ_A_1\Well Based\R1_CASING\
Plot File: \\LOCAL-I\ANSHUTZ_A_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIACRTIACRT_2.lib

2 INCH MAIN LOG





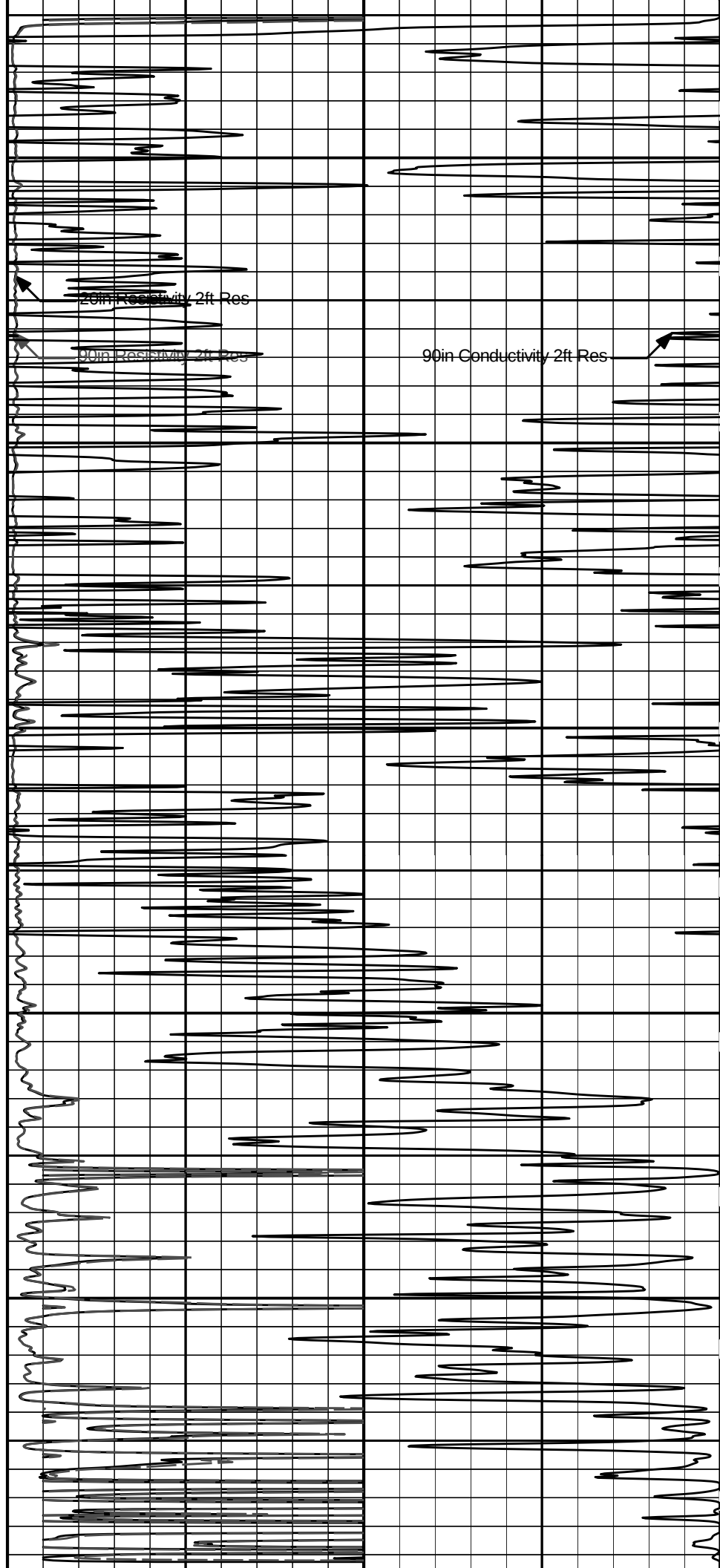
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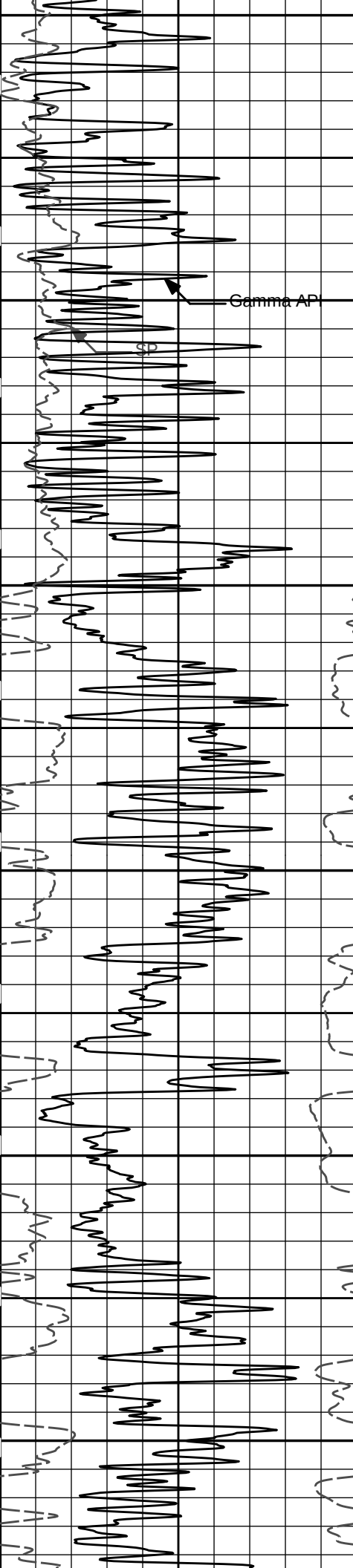
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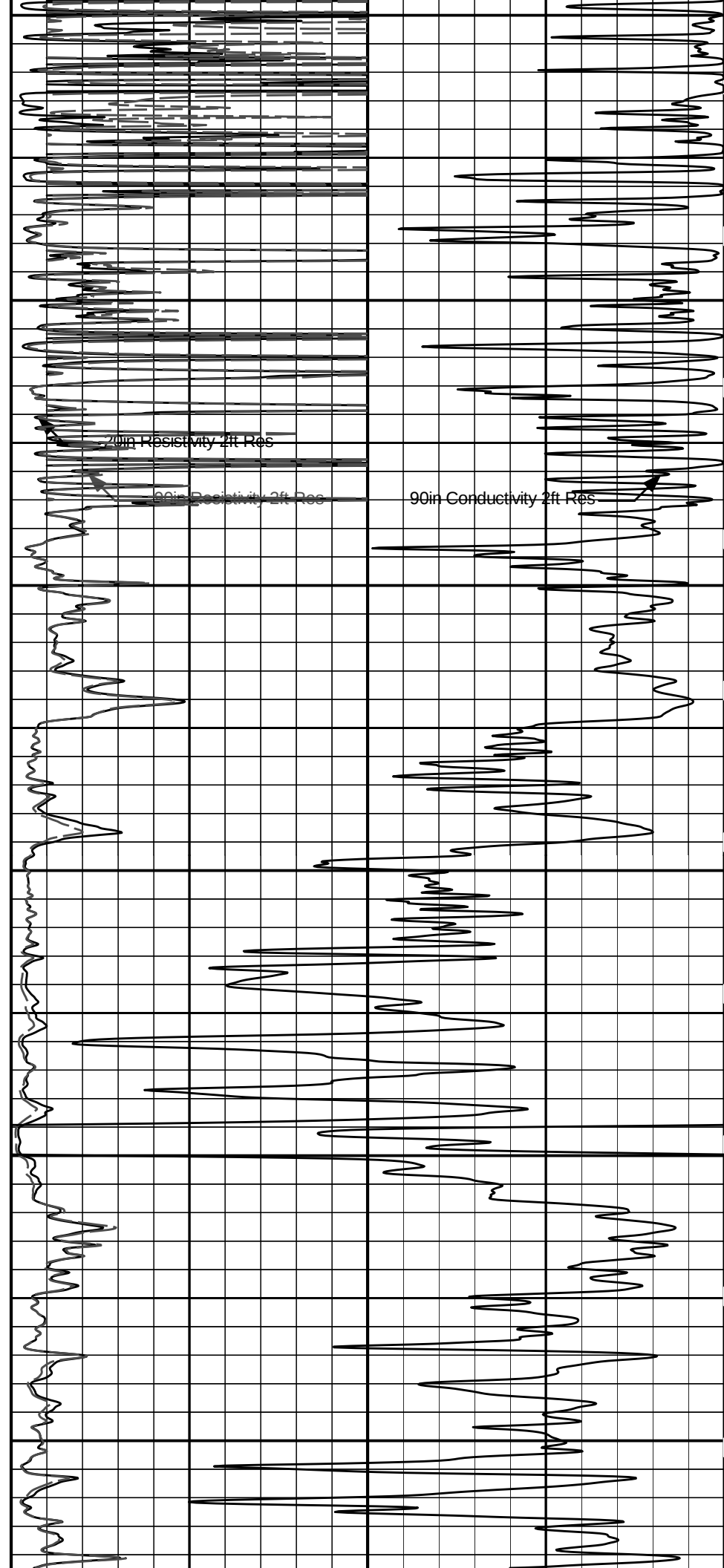
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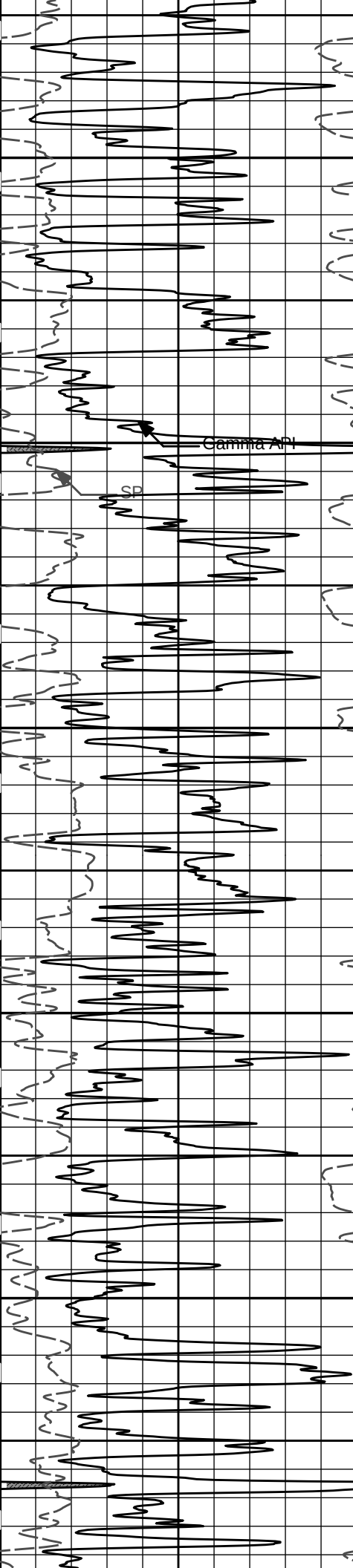
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2500
2600
2700
2800
2900
3000





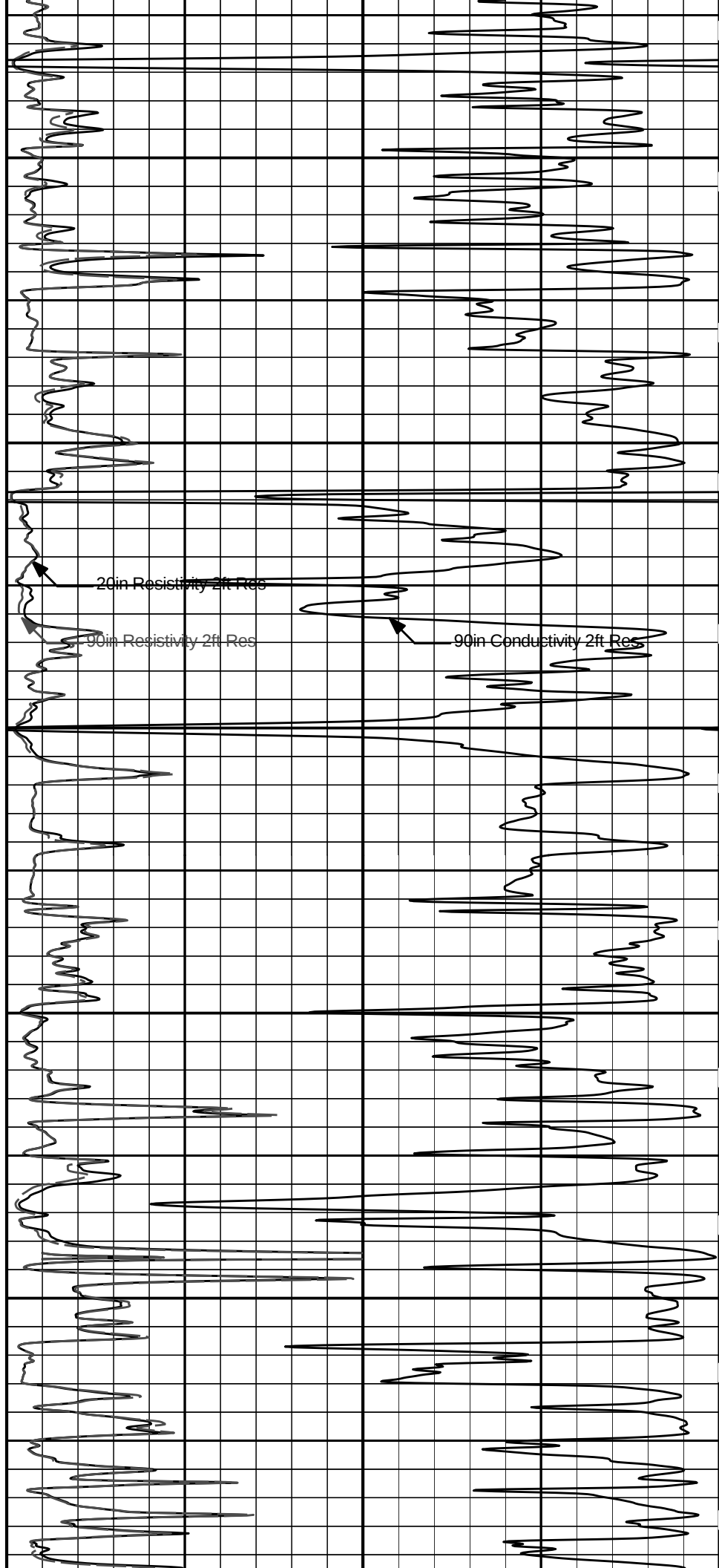
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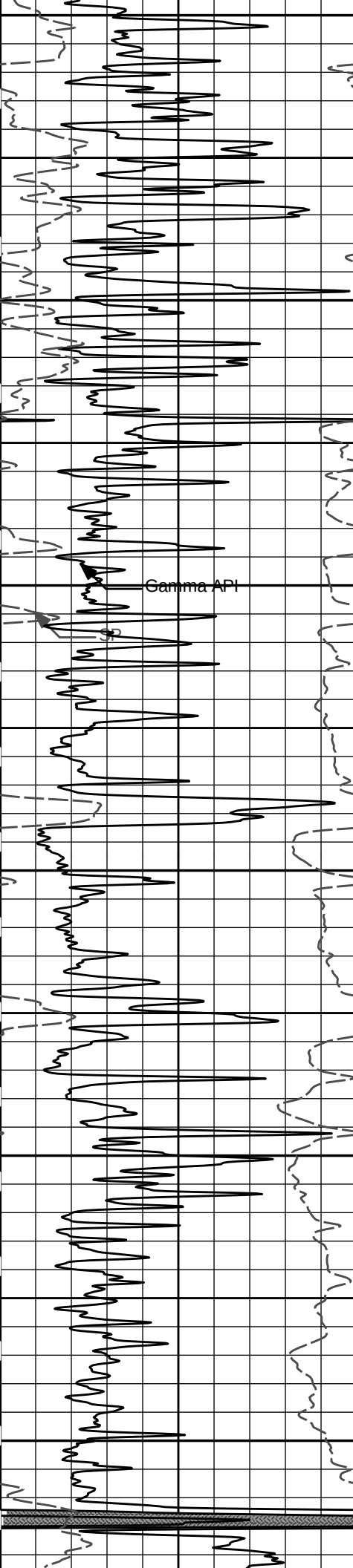
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3400

3500





3600

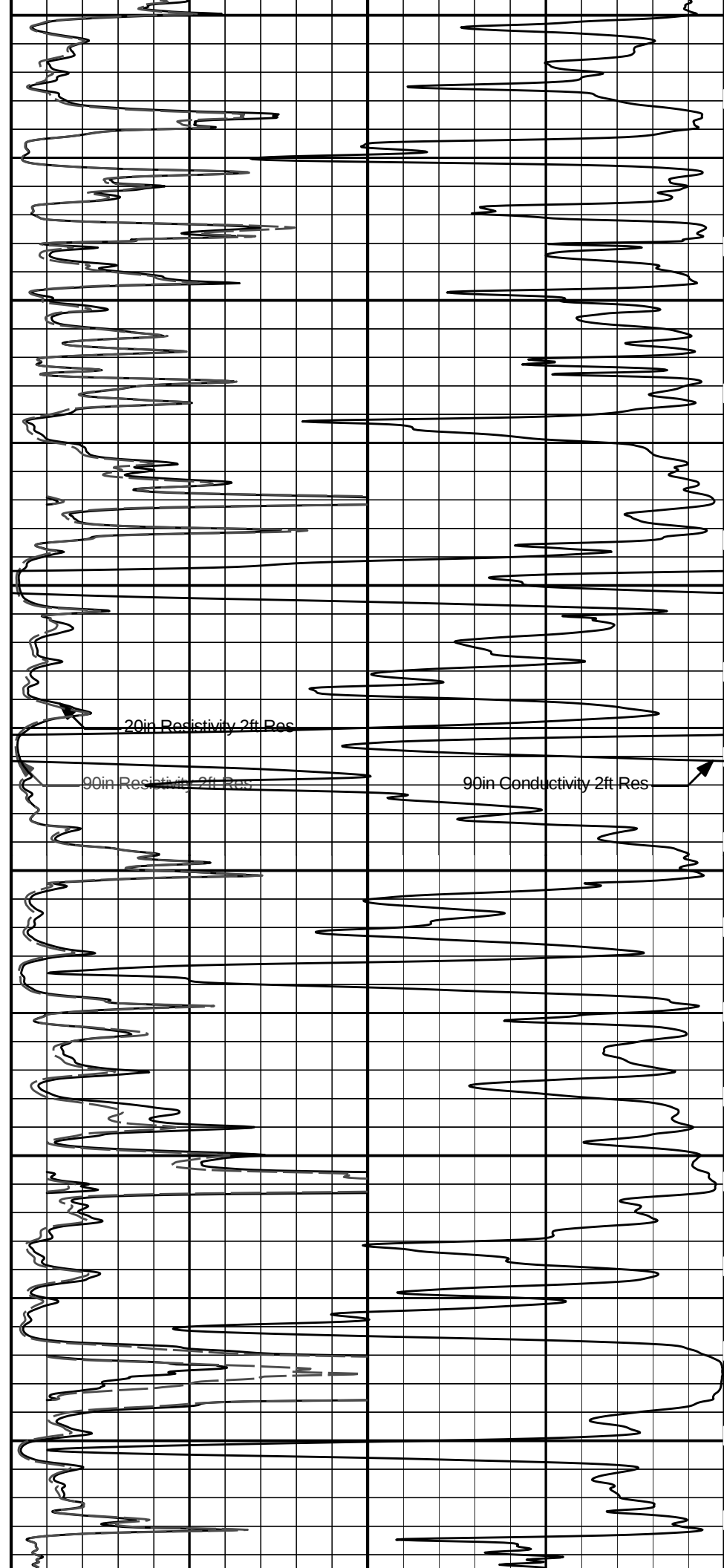
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3900

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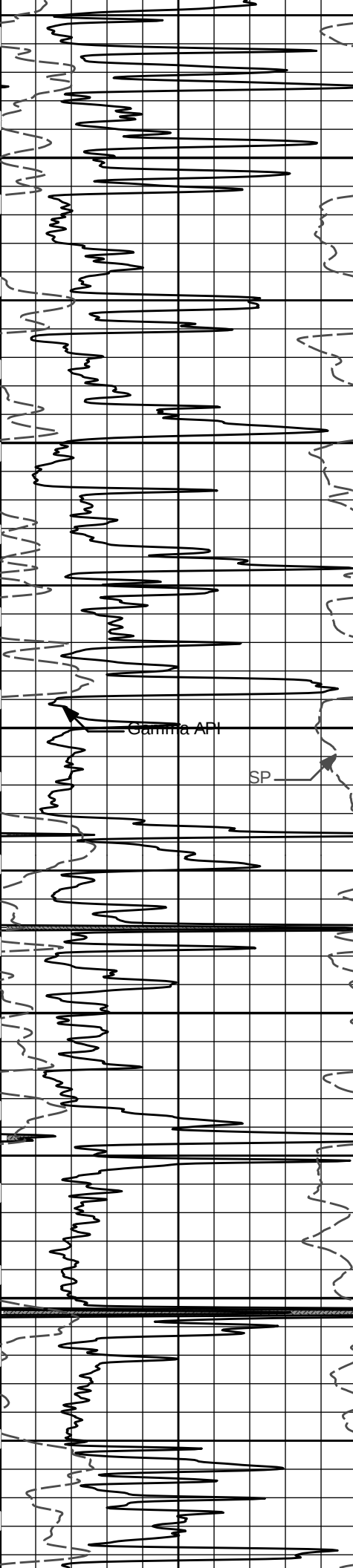
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20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



4200

4300

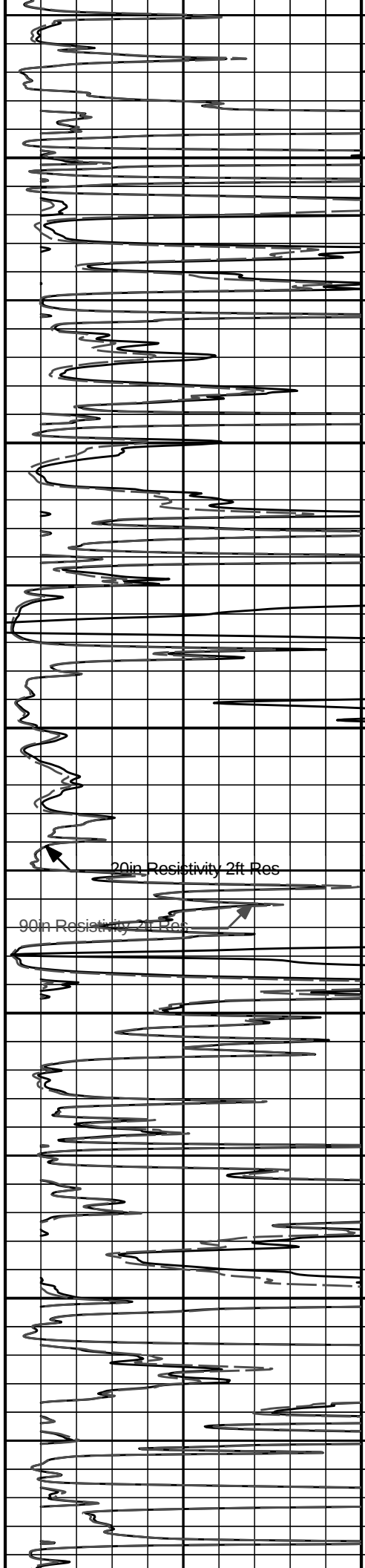
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4500

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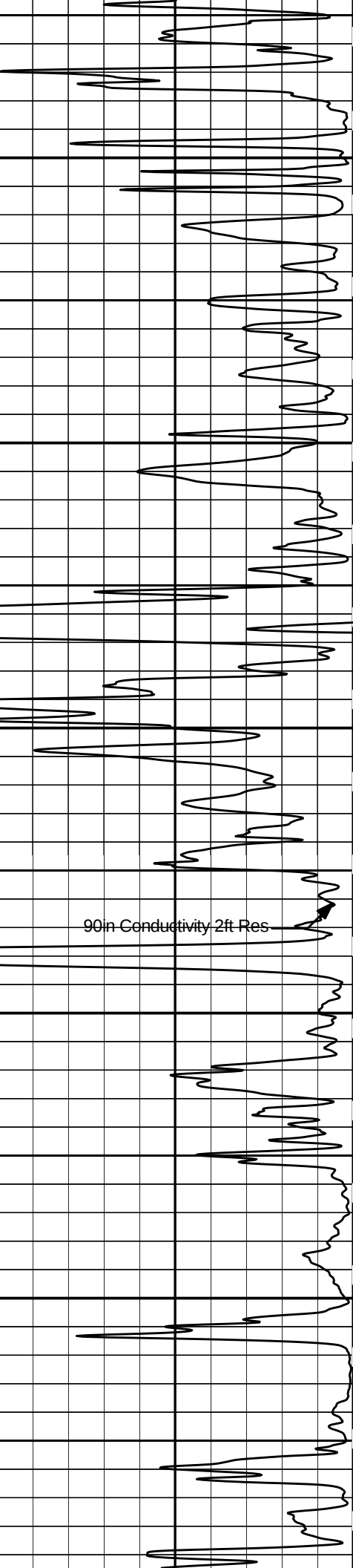
Gamma Ray

SP

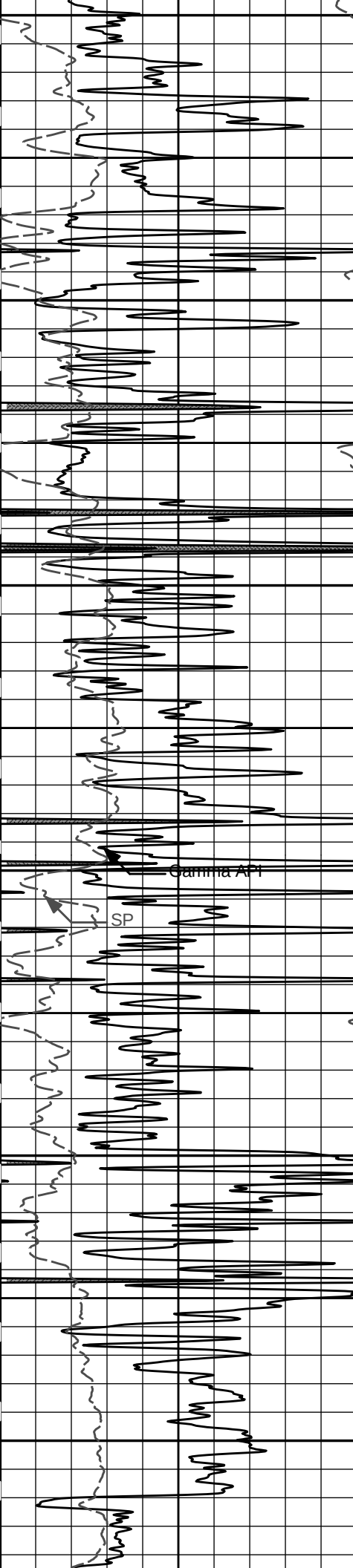


20in Resistivity 2ft Res

90in Resistivity 2ft Res



90in Conductivity 2ft Res



4700

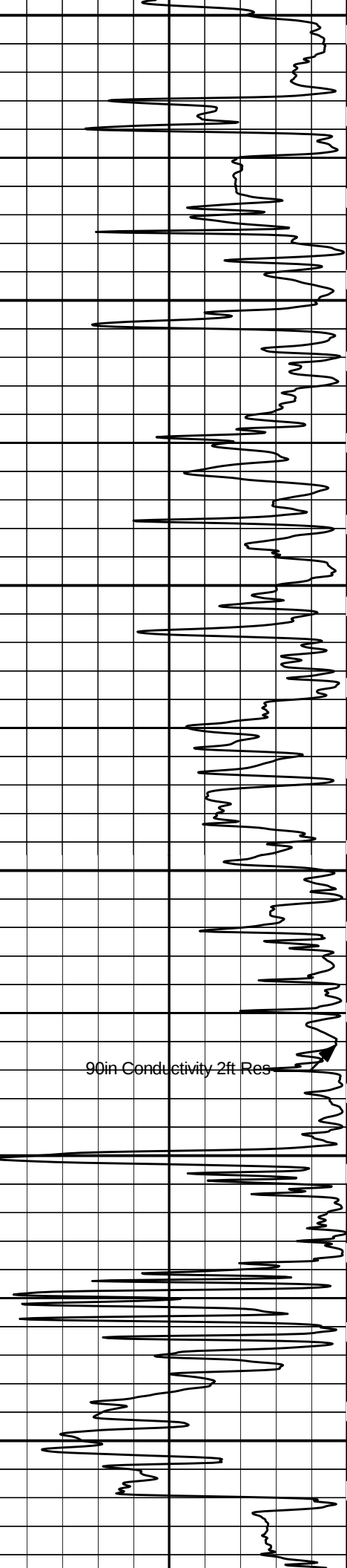
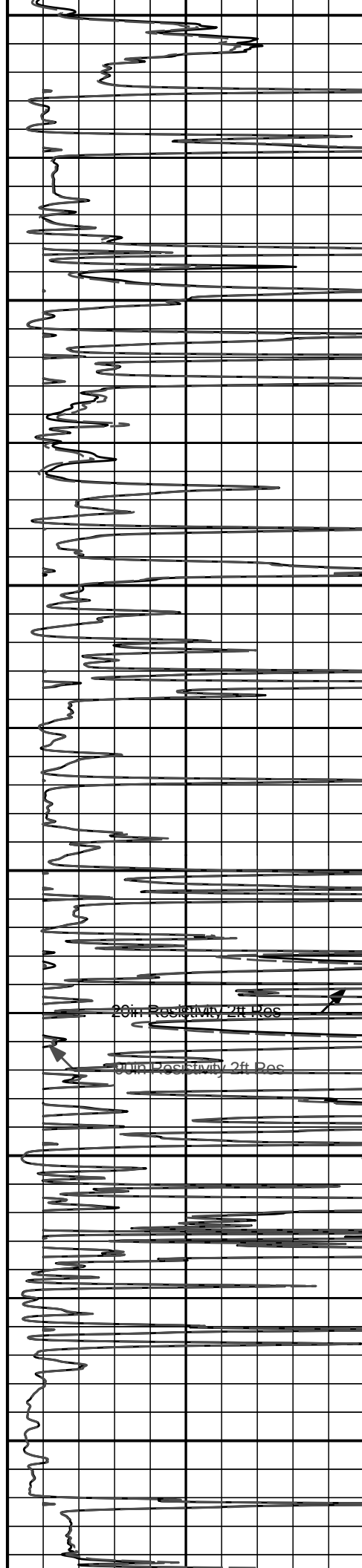
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4900

5000

5100

5200



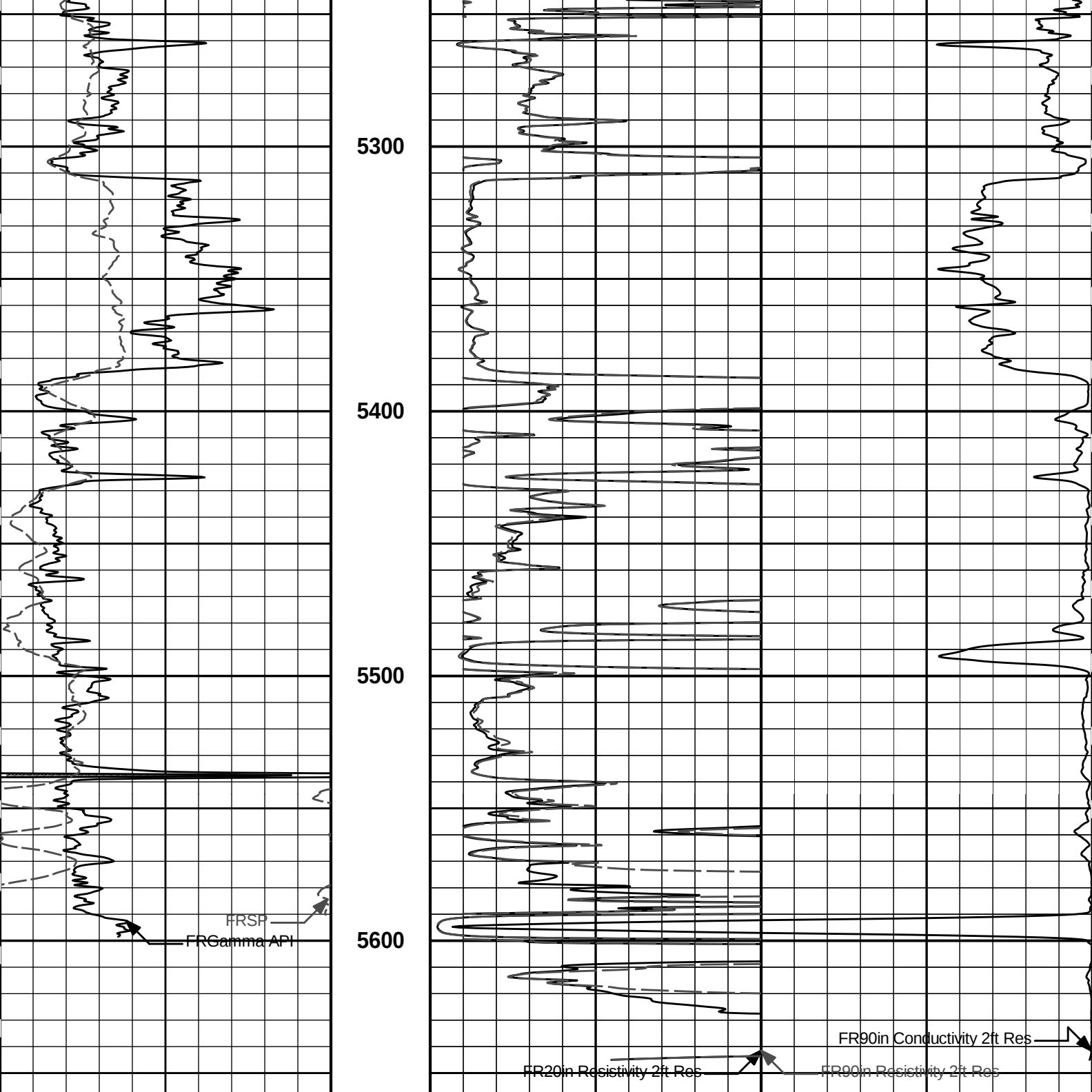
Gamma Ray

SP

20in Resistivity 2ft Res

60in Resistivity 2ft Res

90in Conductivity 2ft Res



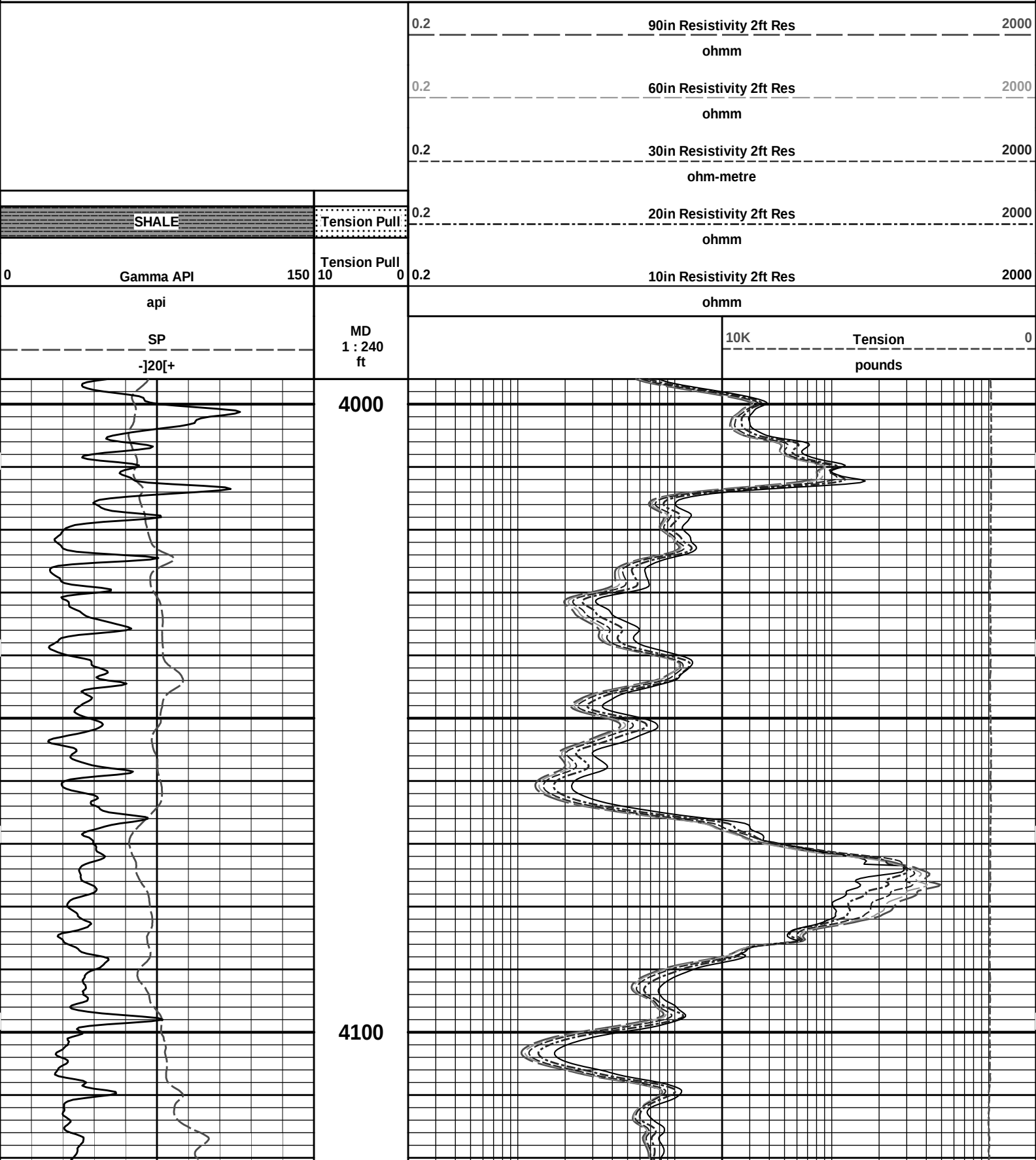
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	api					ohm-metre			
	SP				0	90in Resistivity 2ft Res		50	
	-]20[+					ohm-metre			
					1000	90in Conductivity 2ft Res			0
						mmho per metre			

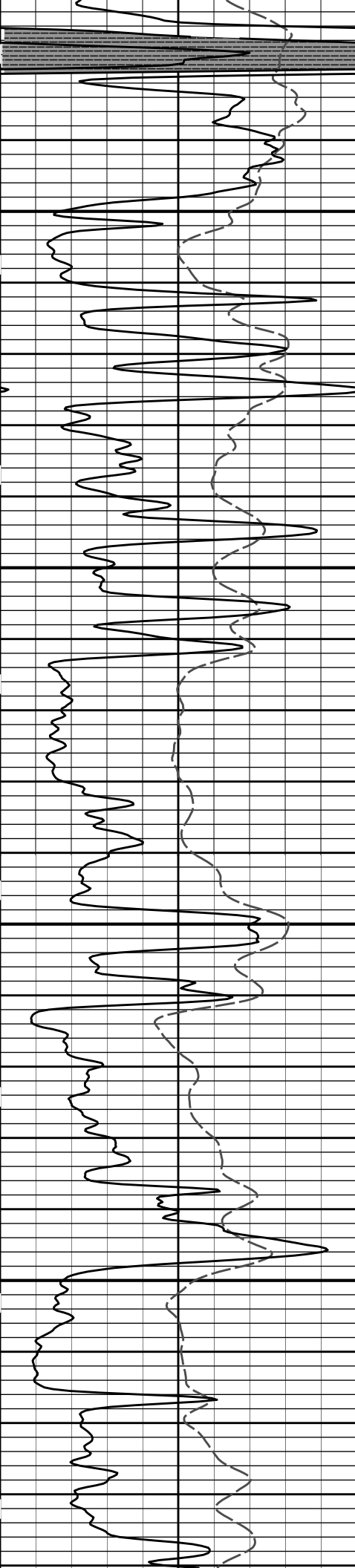
HALLIBURTON

Plot Time: 21-Jul-12 17:01:07
Plot Range: 1790 ft to 5658.08 ft
Data: ANSHUTZ_A_1\Well Based\R1_CASING\
Plot File: \\LOCAL-1\ANSHUTZ_A_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHI\ACRT\ACRT_2.lib

2 INCH MAIN LOG

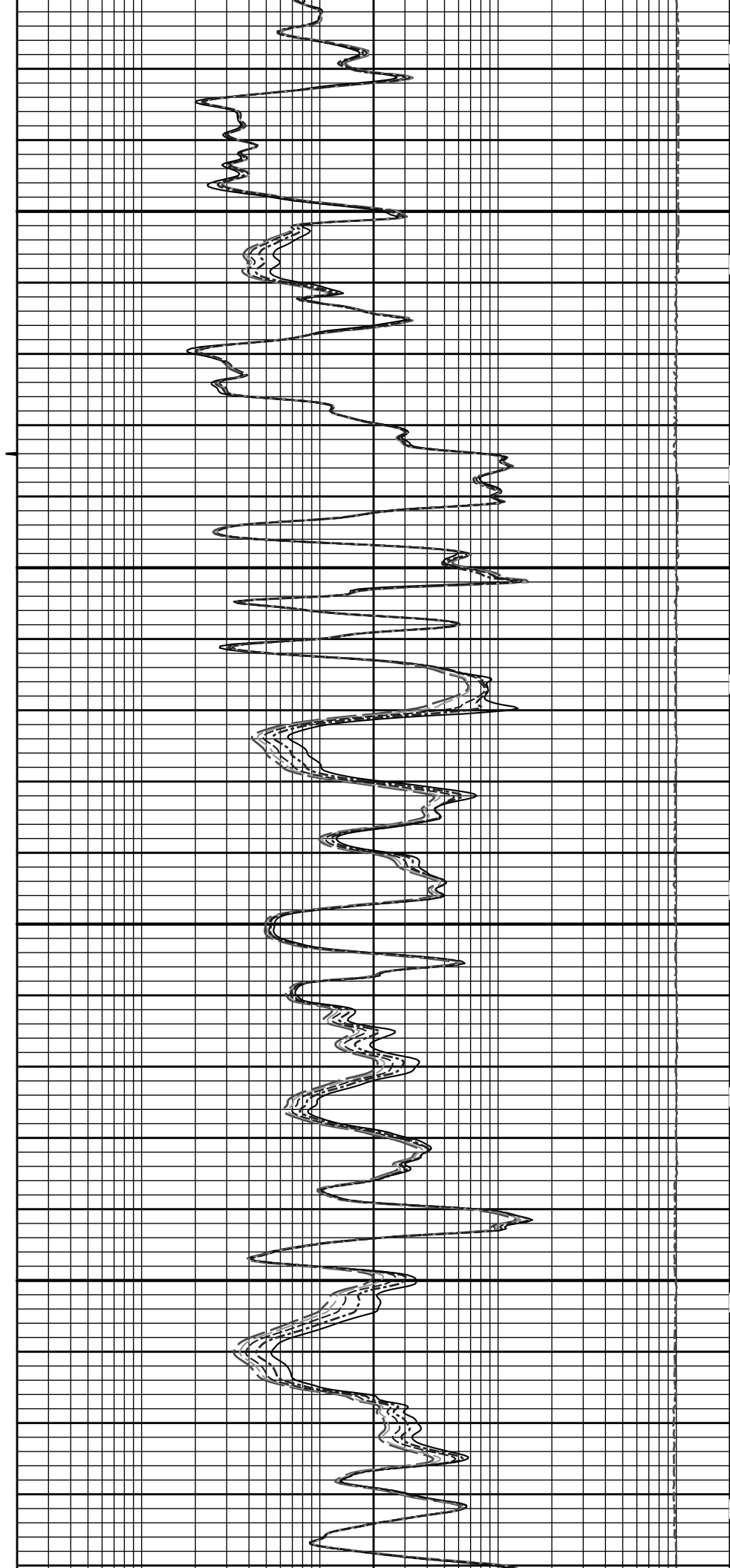
5 INCH MAIN LOG

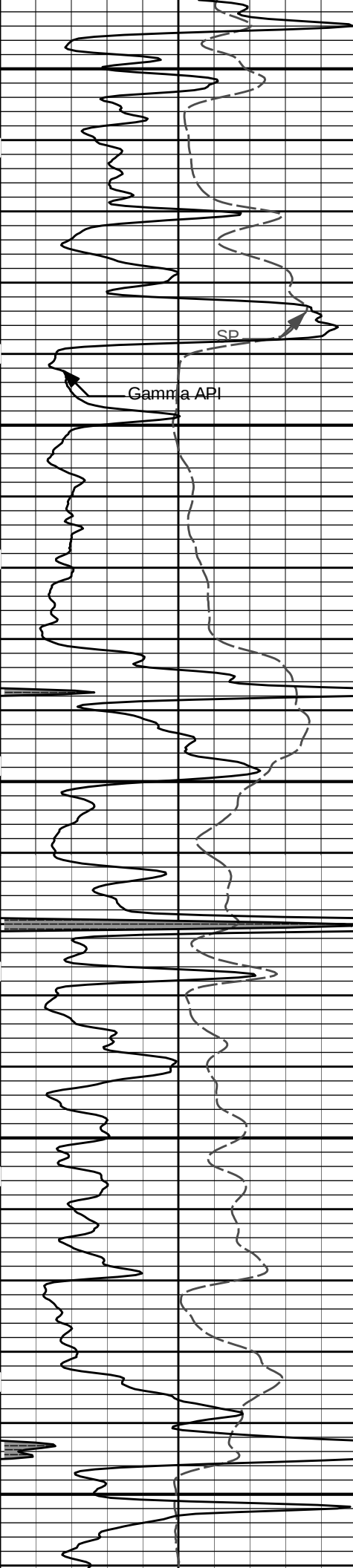




4200

4300



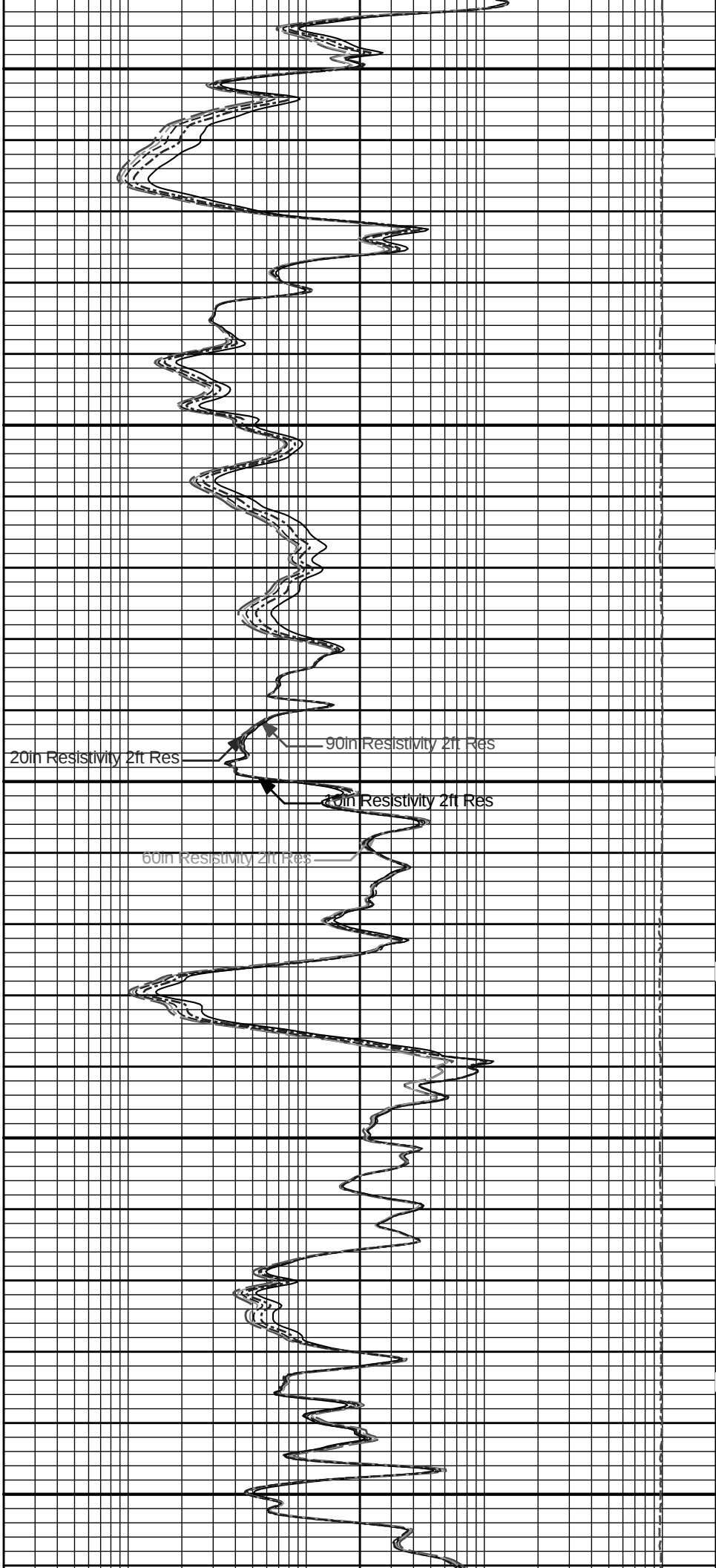


Gamma API

SP

4400

4500

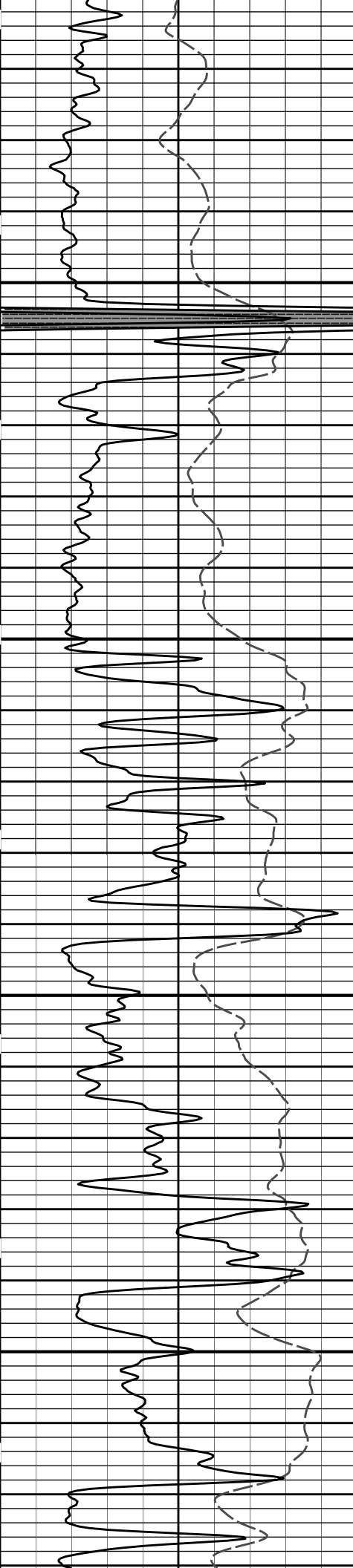


20in Resistivity 2ft Res

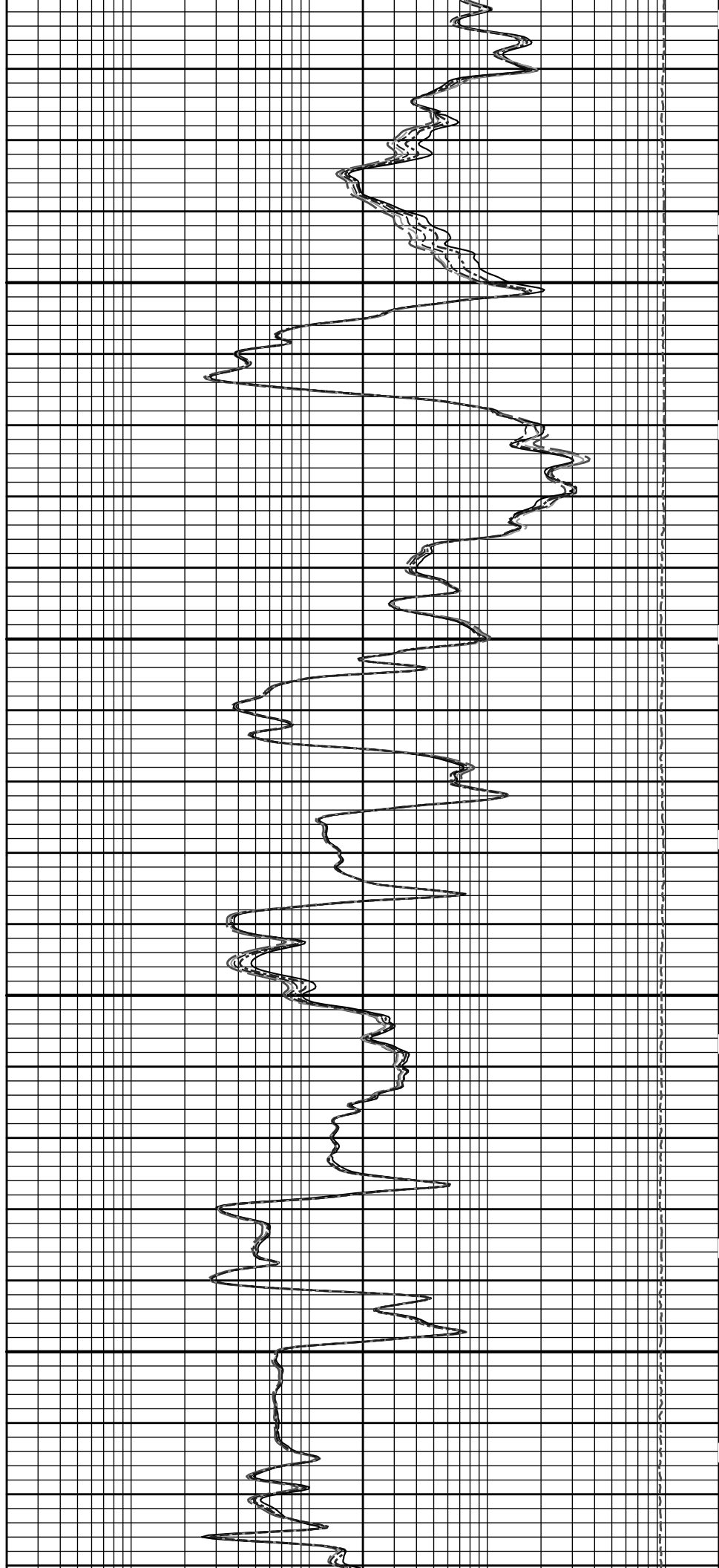
90in Resistivity 2ft Res

40in Resistivity 2ft Res

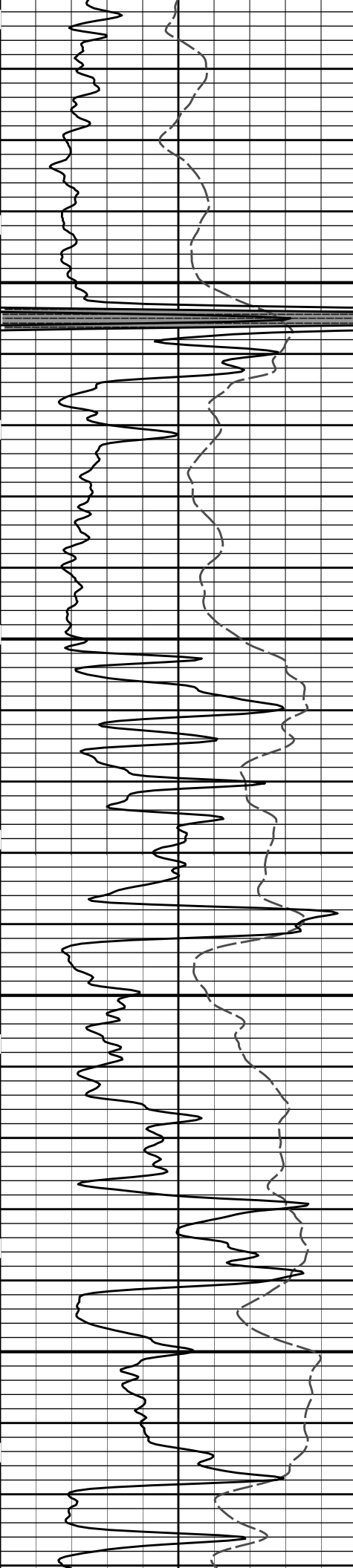
60in Resistivity 2ft Res



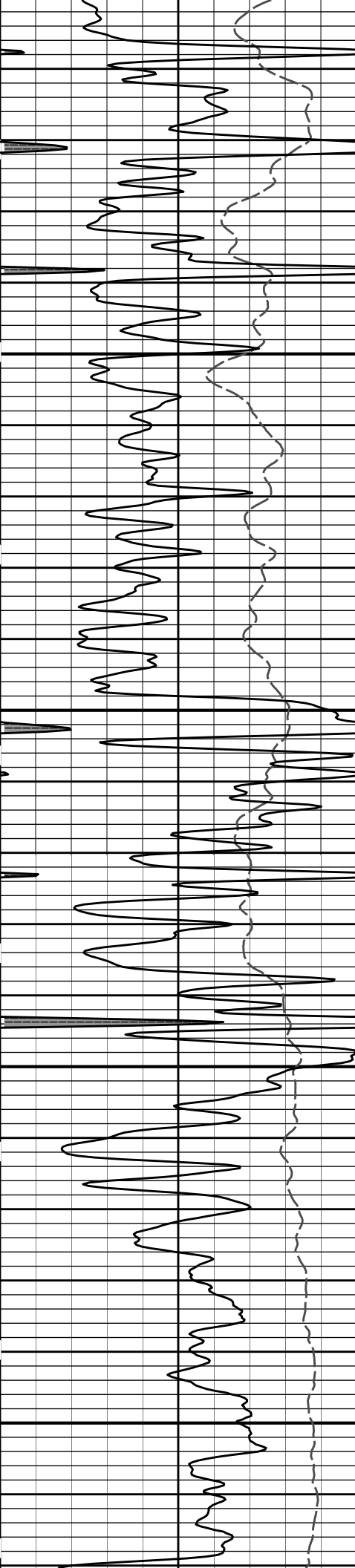
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4700



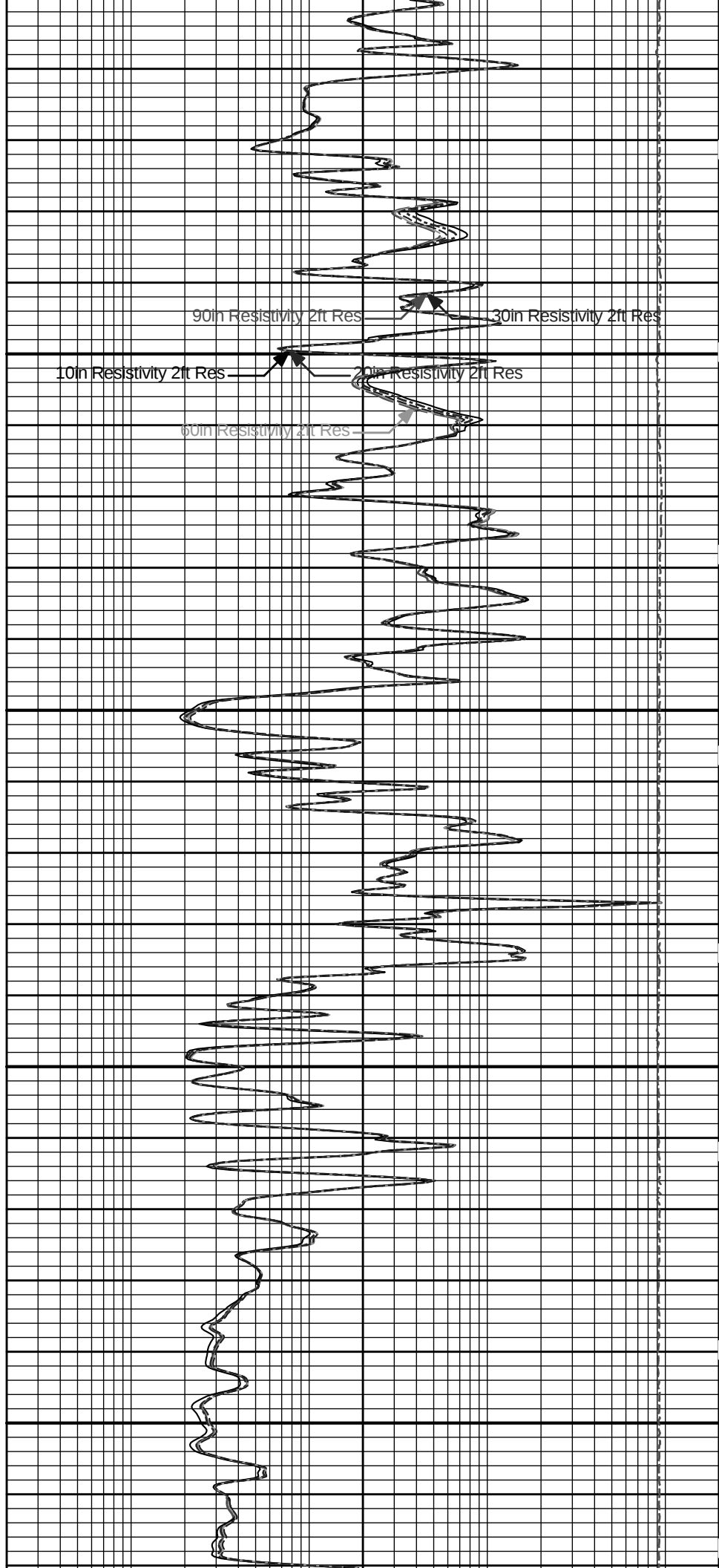


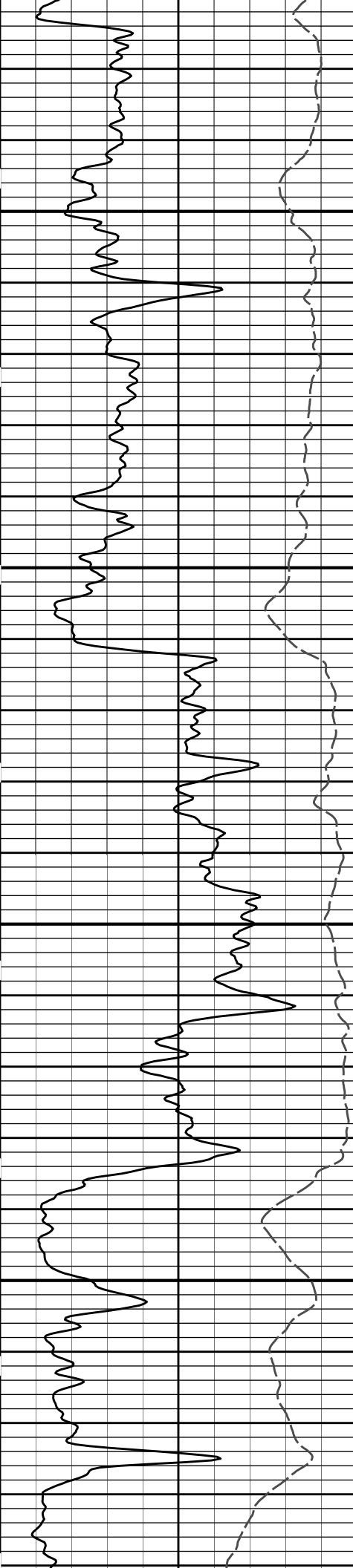


5000

5100

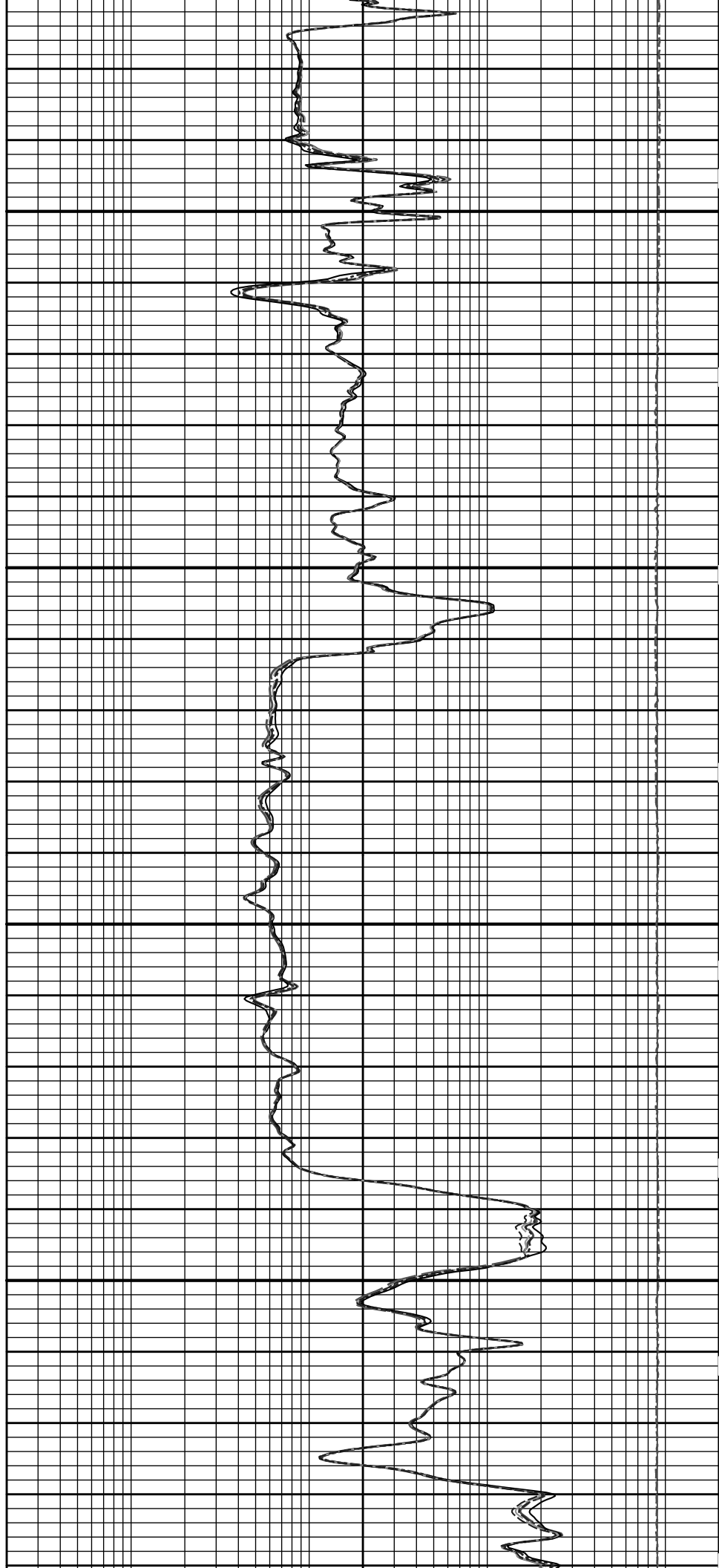
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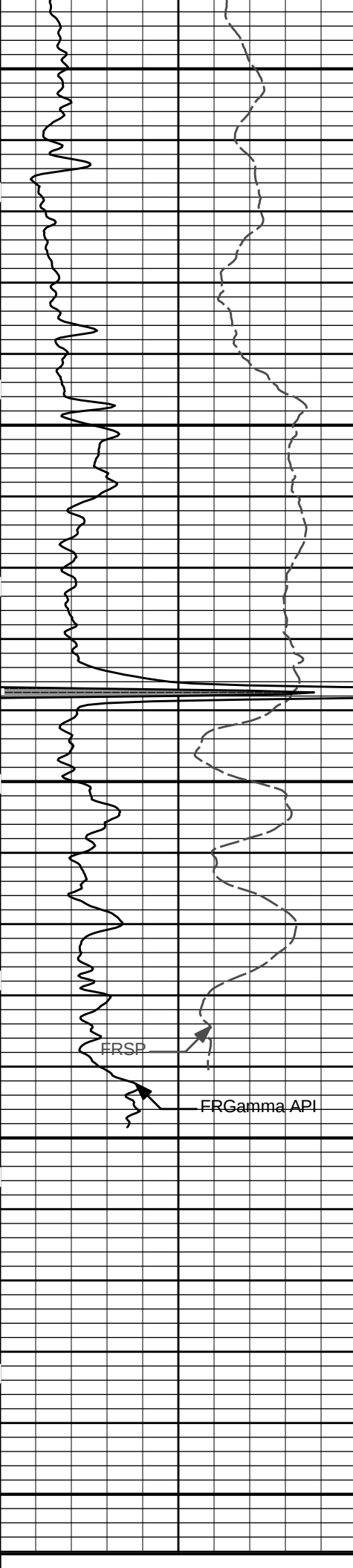




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5400



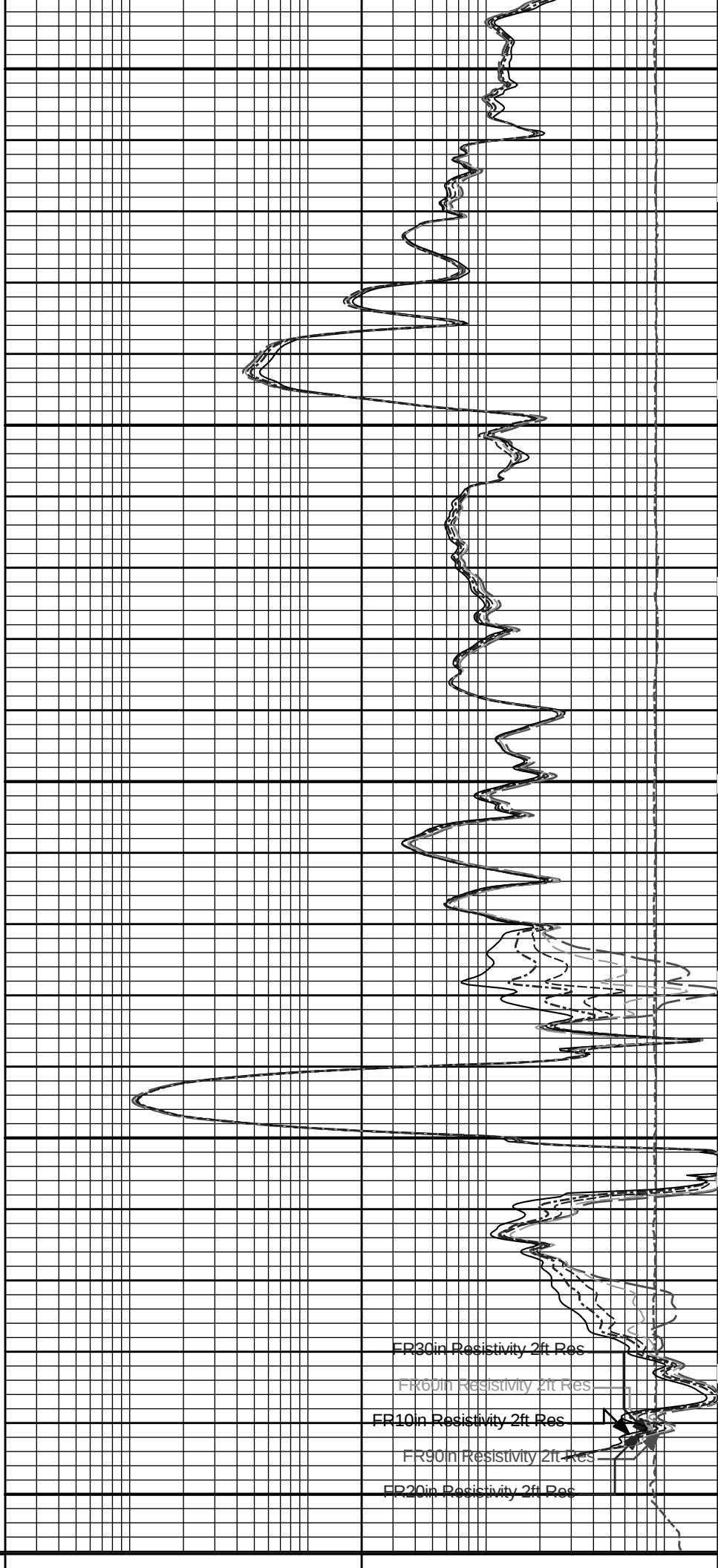


5500

5600

TD

MD



FR30in Resistivity 2ft Res

FR60in Resistivity 2ft Res

FR10in Resistivity 2ft Res

FR90in Resistivity 2ft Res

FR20in Resistivity 2ft Res

SP		MD	10K		Tension	0
-]20[+		1 : 240 ft			pounds	
0	Gamma API	150	Tension Pull	0.2	10in Resistivity 2ft Res	2000
api			ohmm			
SHALE		Tension Pull	0.2	20in Resistivity 2ft Res		2000
			ohmm			
			0.2	30in Resistivity 2ft Res		2000
			ohm-metre			
			0.2	60in Resistivity 2ft Res		2000
			ohmm			
			0.2	90in Resistivity 2ft Res		2000
			ohmm			

HALLIBURTON

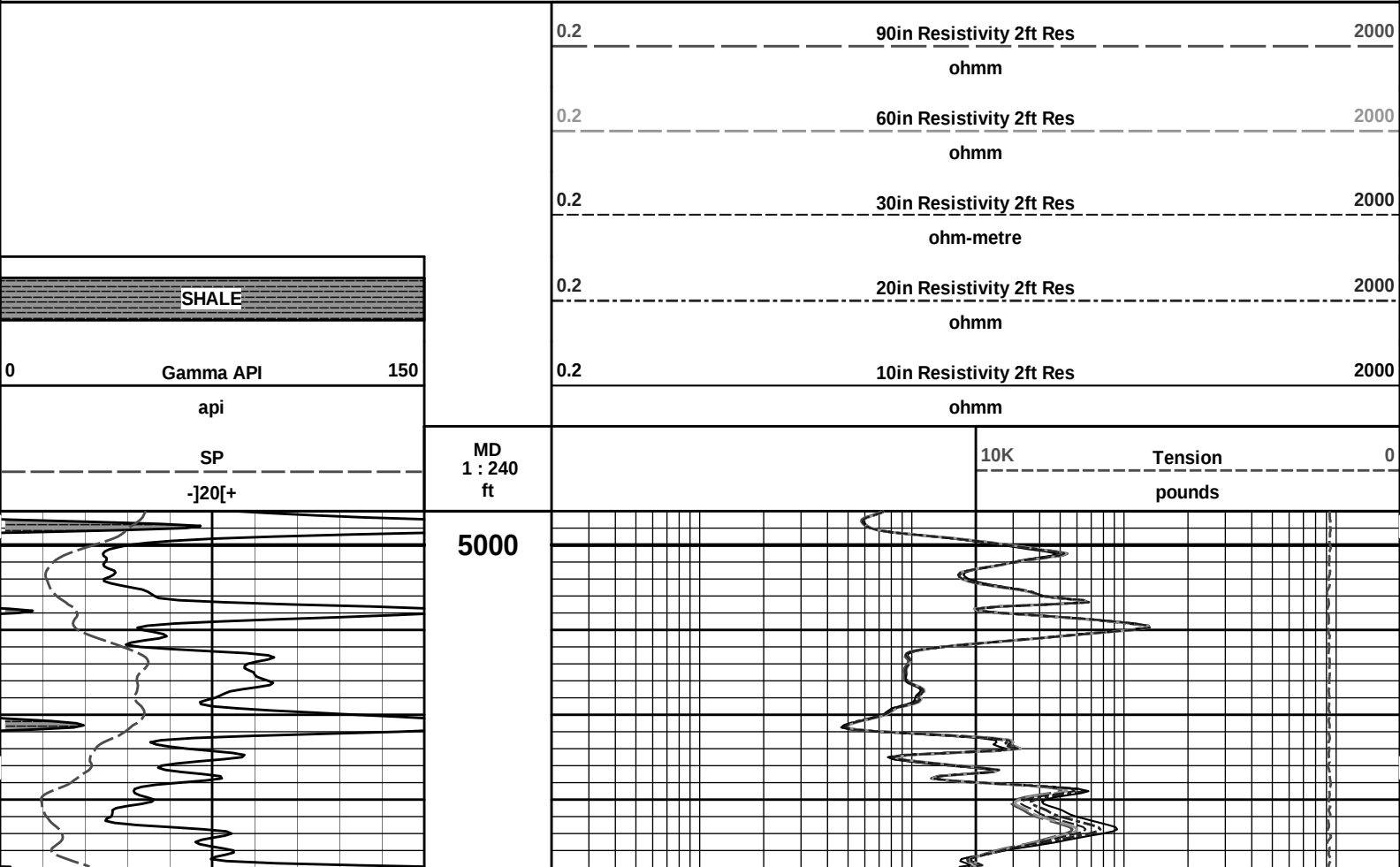
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Data: ANSHUTZ_A_1\Well Based\IR1_DETAIL\
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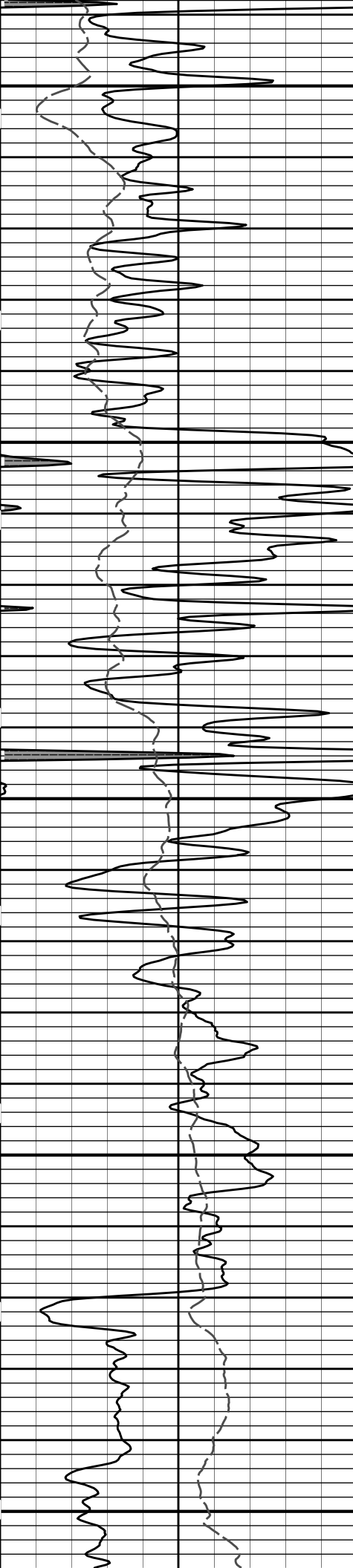
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 21-Jul-12 17:01:10
Plot Range: 4996 ft to 5655.33 ft
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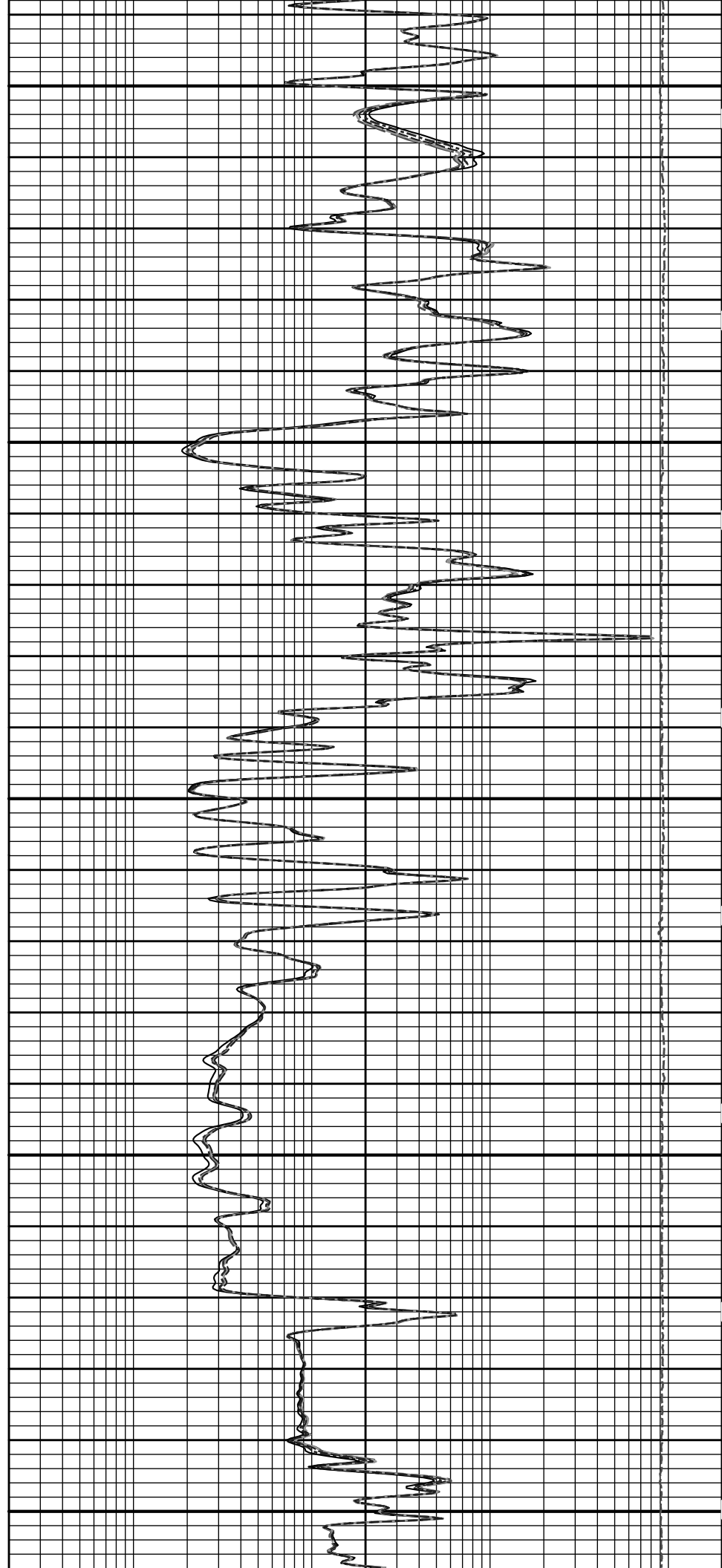
REPEAT SECTION

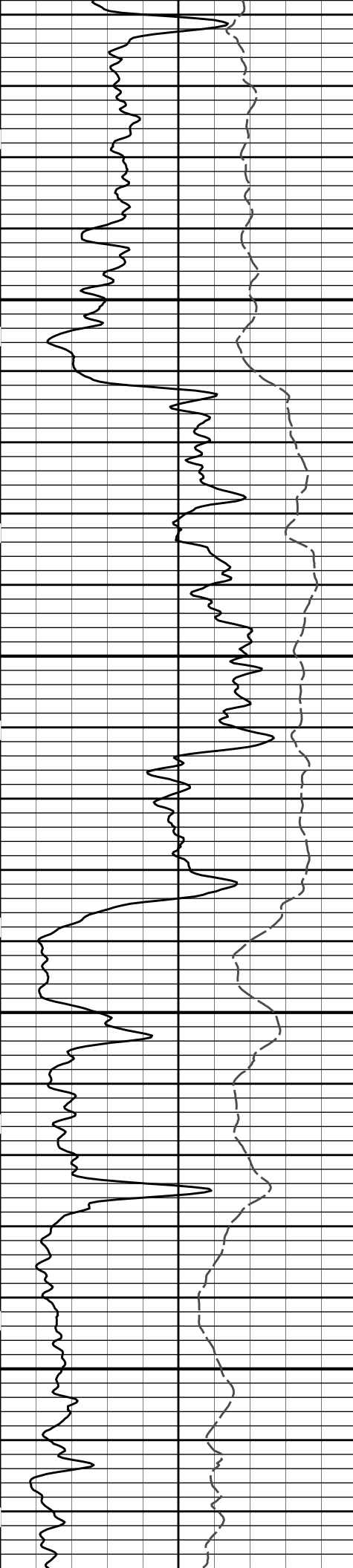




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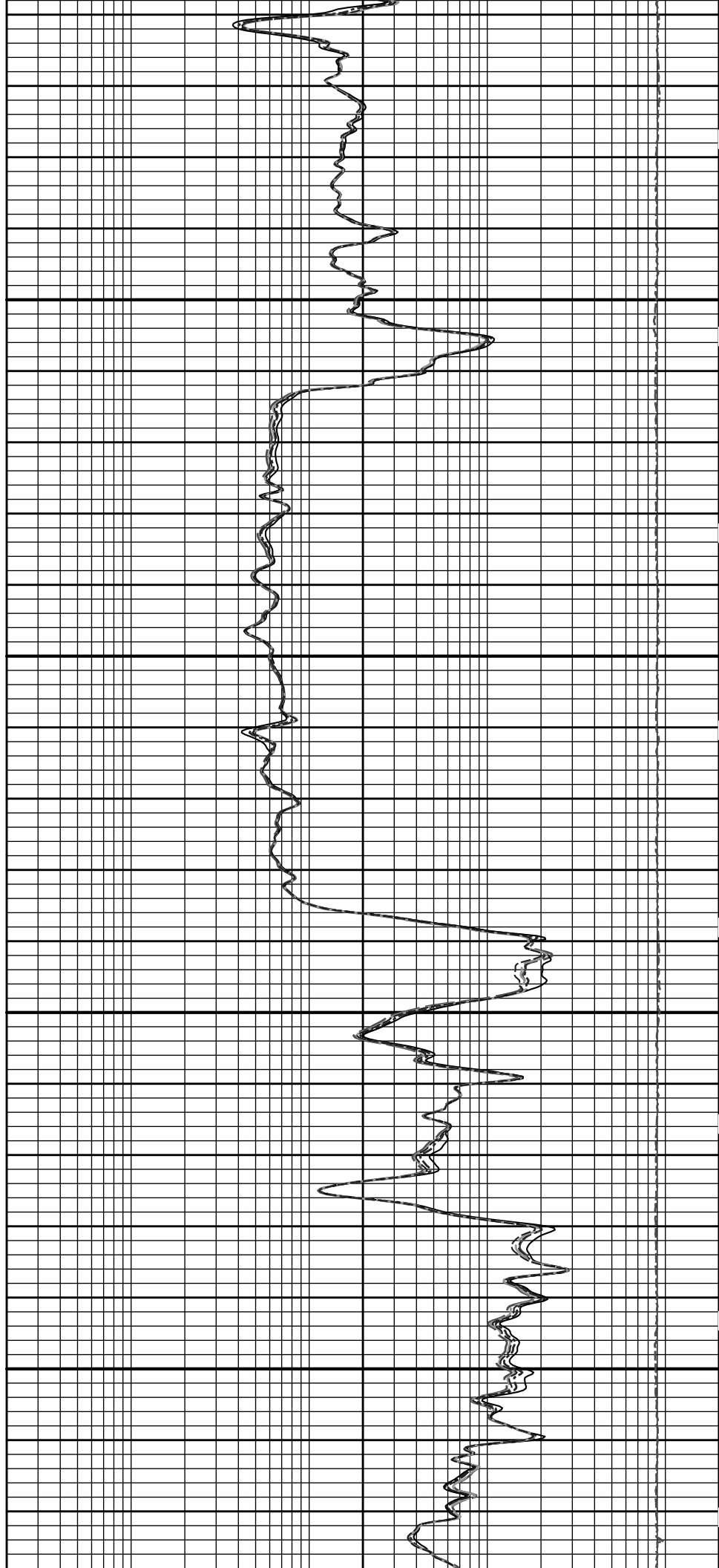
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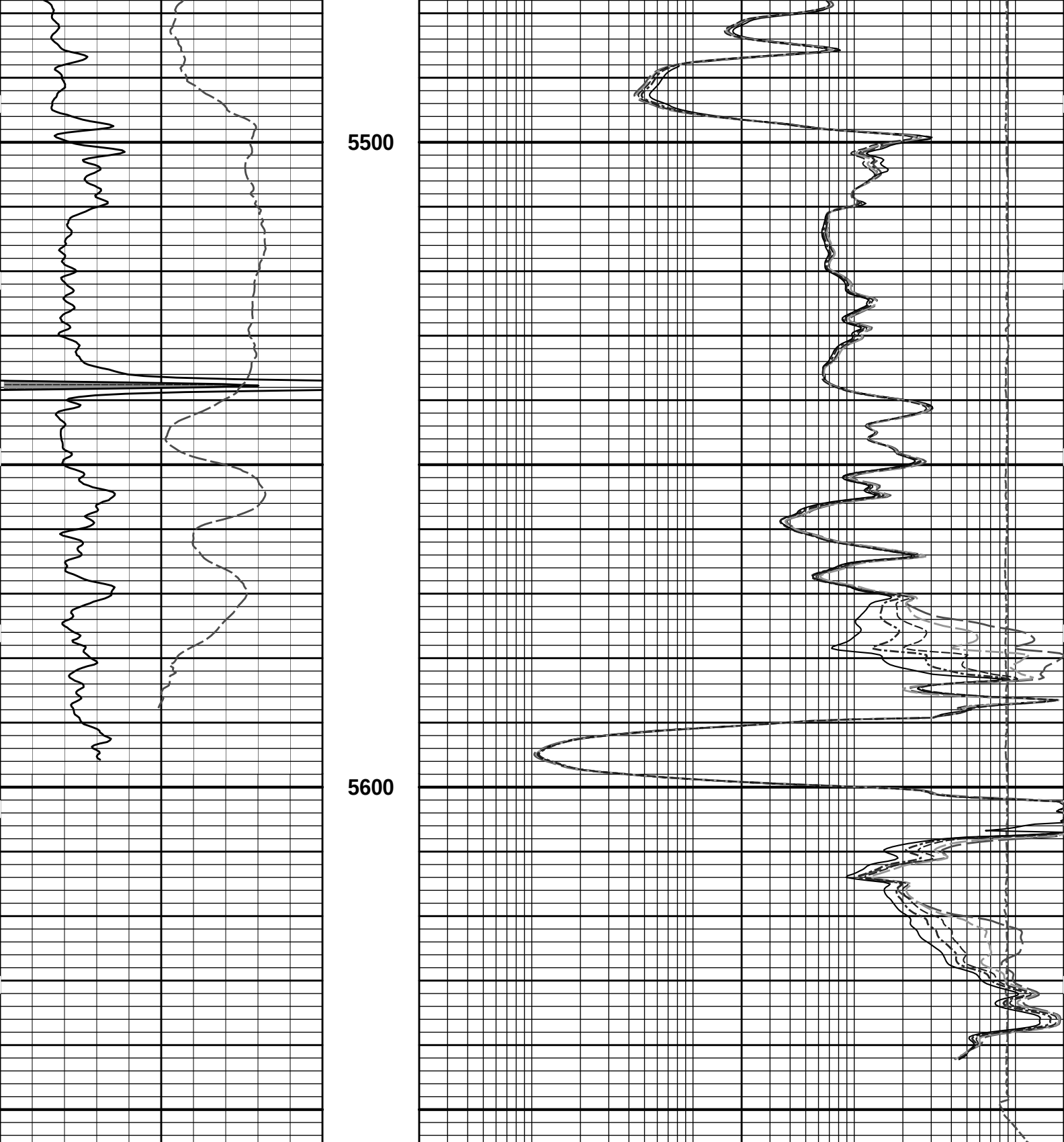




5300

5400





0	SP -]20[+	MD 1 : 240 ft	10K	Tension pounds	0
	Gamma API		0.2	10in Resistivity 2ft Res	2000
	api		0.2	20in Resistivity 2ft Res	2000
	SHALE		0.2	30in Resistivity 2ft Res	2000
				ohm-metre	

		0.2	60in Resistivity 2ft Res	2000
			ohmm	
		0.2	90in Resistivity 2ft Res	2000
			ohmm	

HALLIBURTON

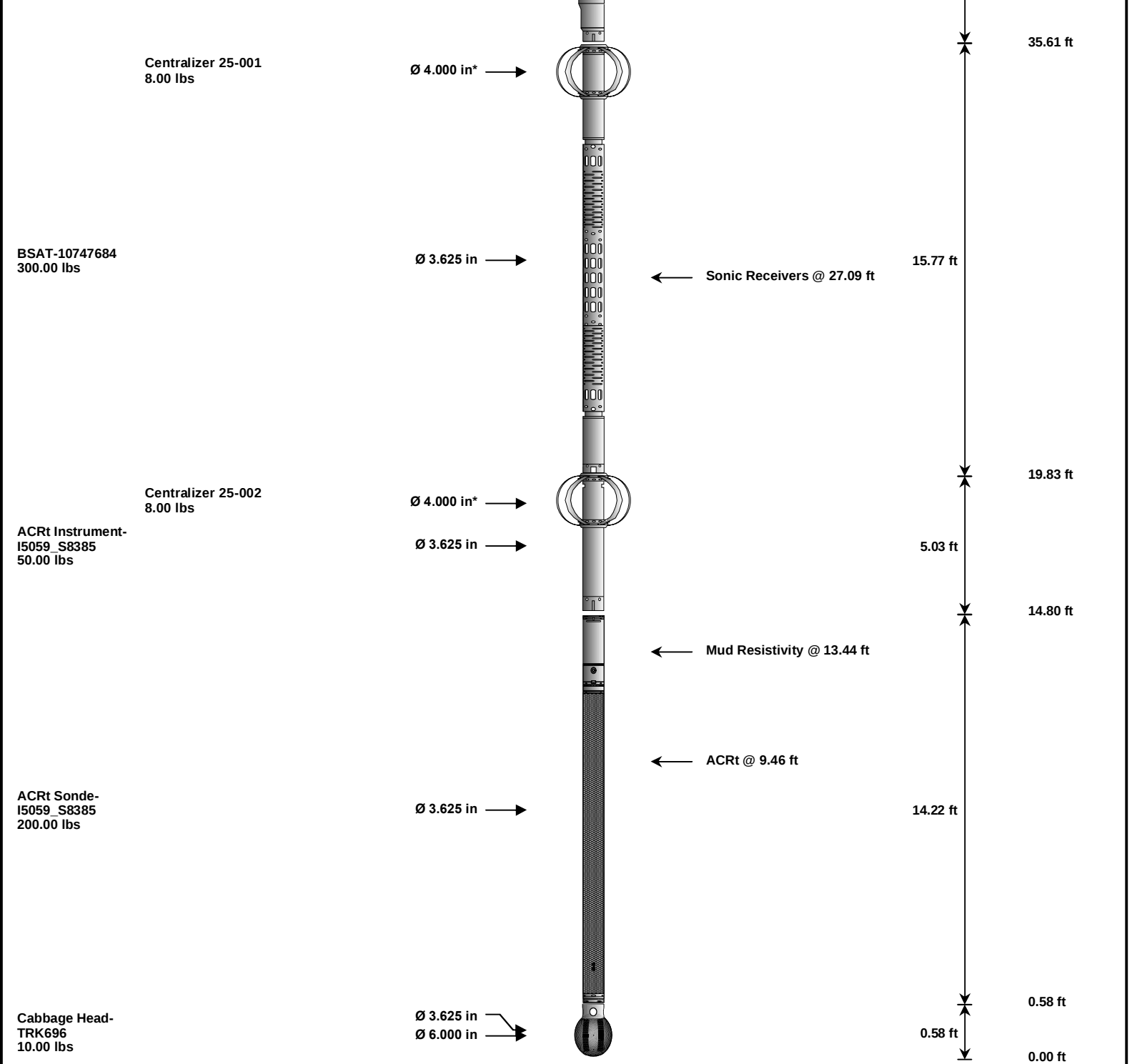
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REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length	
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 71.31 ft	3.03 ft	72.34 ft	
XOHD-TRK696 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	69.31 ft	
						68.36 ft	
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		•	← SP @ 66.59 ft	3.74 ft	
							64.63 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →			← GammaRay @ 58.56 ft	8.52 ft	
							56.11 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer-11005605 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →			← DSN Far @ 49.17 ft ← DSN Near @ 48.42 ft	9.69 ft	
							46.42 ft
SDLT-I43_M489 360.00 lbs	SDLT Pad-P81 65.00 lbs Microlog Pad-M489 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →			Microlog @ 38.61 ft SDL Caliper @ 38.42 ft SDL @ 38.41 ft	10.81 ft	



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	HOS	Hostile Cable Head with Load Cell	CH 696	37.50	3.03	69.31	300.00
XOHD		Hostile to Dits Cross Over	TRK696	20.00	0.95	68.36	300.00
SP		SP Sub	11441455	60.00	3.74	64.63	300.00
GTET		Gamma Telemetry Tool	11048627	165.00	8.52	56.11	60.00
DSNT		Dual Spaced Neutron	11019643	174.00	9.69	46.42	60.00
DCNT		DSN Decentralizer	11005605	6.60	5.13	* 49.75	300.00
SDLT		Spectral Density Tool	I43_M489	360.00	10.81	35.61	60.00
MICP		Microlog Pad	M489	8.00	1.00	* 38.11	60.00
SDLP		Density Insite Pad	P81	65.00	2.55	* 37.82	60.00
BSAT		Borehole Sonic Array Tool	10747684	300.00	15.77	19.83	60.00
OBCEN		Centralizer - 25 in. Overbody	001	8.00	2.08	* 33.53	300.00
ACRt		Array Compensated True Resistivity Instrument Section	I5059_S8385	50.00	5.03	14.80	300.00
OBCEN		Centralizer - 25 in. Overbody	002	8.00	2.08	* 17.83	300.00
ACRt		Array Compensated True Resistivity Sonde Section	I5059_S8385	200.00	14.22	0.58	300.00
CBHD		Cabbage Head	TRK696	10.00	0.58	0.00	300.00
Total				1,472.10	72.34		

CALIBRATION REPORT

Tool Name:	ACRt Sonde - I5059_S8385	Reference Calibration Date:	12-Jul-12 16:18:52
Engineer:	T. HYDE	Calibration Date:	12-Jul-12 16:29:47
are Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Tool Name:	ACRt Instrument - I5059_S8385		

TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-1.40	2	-6	-4.43	-2	-8	-4.52	-2
A2 (50")	-7	-2.26	0	-7	-3.72	0	-7	-4.52	0
A3 (29")	-27	-13.36	-9	-9	-3.56	-3	-7	-2.73	-1
A4 (17")	-180	-107.06	-60	-45	-33.57	-15	-39	-26.06	-13
A5 (10")	N/A	N/A	N/A	-150	-82.67	-50	-80	-41.94	-10
A6 (6")	N/A	N/A	N/A	175	341.28	525	90	170.50	270

TRANSMITTER CURRENT GAIN			
Signal	Lower	R	Upper
12K	0.6	0.92	1.3
36K	1.0	1.37	2.0
72K	1.0	1.63	2.0

R-MUD VERIFICATION			
Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

GAIN RANGE CHK	PASS
SONDE OFFSET RANGE CHK	PASS
Tx CURRENT GAIN	PASS
Rmud VERIFICATION	PASS

TOOL OK TO LOG

Sensor	Shop	Field	Post	Difference	Tolerance	Units
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ACRT Sonde-15059_S8385						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: ANSHUTZ_A_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE						Date: 21-Jul-12 13:42:01
HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP-----						
	SHARED	BS	Bit Size	7.875	in	
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No		
	SHARED	MDBS	Mud Base	Water		
	SHARED	MDWT	Borehole Fluid Weight	9.500	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	SHARED	BSAL	Borehole salinity	5500.00	ppm	
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm	
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%	
	SHARED	RMUD	Mud Resistivity	0.750	ohmm	
	SHARED	TRM	Temperature of Mud	90.0	degF	
	SHARED	CSD	Logging Interval is Cased?	No		
	SHARED	ICOD	AHV Casing OD	5.500	in	
	SHARED	ST	Surface Temperature	75.0	degF	
	SHARED	TD	Total Well Depth	5663.00	ft	
	SHARED	BHT	Bottom Hole Temperature	140.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	NONE		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET		
	SHARED	TEMM	Temperature Master Tool	NONE		
	SHARED	BHSM	Borehole Size Master Tool	NONE		
	Rwa / CrossPlot	XPOK	Process Crossplot?	No		
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm	
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF	
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm	
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No		
	GTET	GROK	Process Gamma Ray?	Yes		
	GTET	GRSO	Gamma Tool Standoff	0.000	in	
	GTET	GEOK	Process Gamma Ray EVR?	No		
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered		
	DSNT	DNOK	Process DSN?	Yes		
	DSNT	DEOK	Process DSN EVR?	No		
	DSNT	NLIT	Neutron Lithology	Limestone		
	DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in	
	DSNT	DNTP	Temperature Correction Type	None		
	DSNT	DPRS	DSN Pressure Correction Type	None		
	DSNT	SHCO	View More Correction Options	No		
	DSNT	UTVD	Use TVD for Gradient Corrections?	No		
	DSNT	LHWT	Logging Horizontal Water Tank?	No		
	SDLT	CLOK	Process Caliper Outputs?	Yes		
	SDLT Pad	DNOK	Process Density?	Yes		
	SDLT Pad	DNOK	Process Density EVR?	No		
	SDLT Pad	CB	Logging Calibration Blocks?	No		
	SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes		

SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM				
Data: ANSHUTZ_A_1I0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE			Date: 21-Jul-12 13:41:50	

HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	66.58	NO	
SP	Spontaneous Potential	66.58	BLK	1.250
SPR	Raw Spontaneous Potential	66.58	NO	
SPO	Spontaneous Potential Offset	66.58	NO	
GTET				
TPUL	Tension Pull	58.56	NO	
GR	Natural Gamma Ray API	58.56	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	58.56	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	58.56	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	48.32	NO	
RNDS	Near Detector Telemetry Counts	48.42	BLK	1.417
RFDS	Far Detector Telemetry Counts	49.17	TRI	0.583
DNTT	DSN Tool Temperature	48.42	NO	

DSNS	DSN Tool Status	48.32	NO	
ERND	Near Detector Telemetry Counts EVR	48.42	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	49.17	BLK	0.000
ENTM	DSN Tool Temperature EVR	48.42	NO	
SDLT				
TPUL	Tension Pull	38.42	NO	
PCAL	Pad Caliper	38.42	TRI	0.250
ACAL	Arm Caliper	38.42	TRI	0.250
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
GMOD	Gain processing mode	19.83	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000

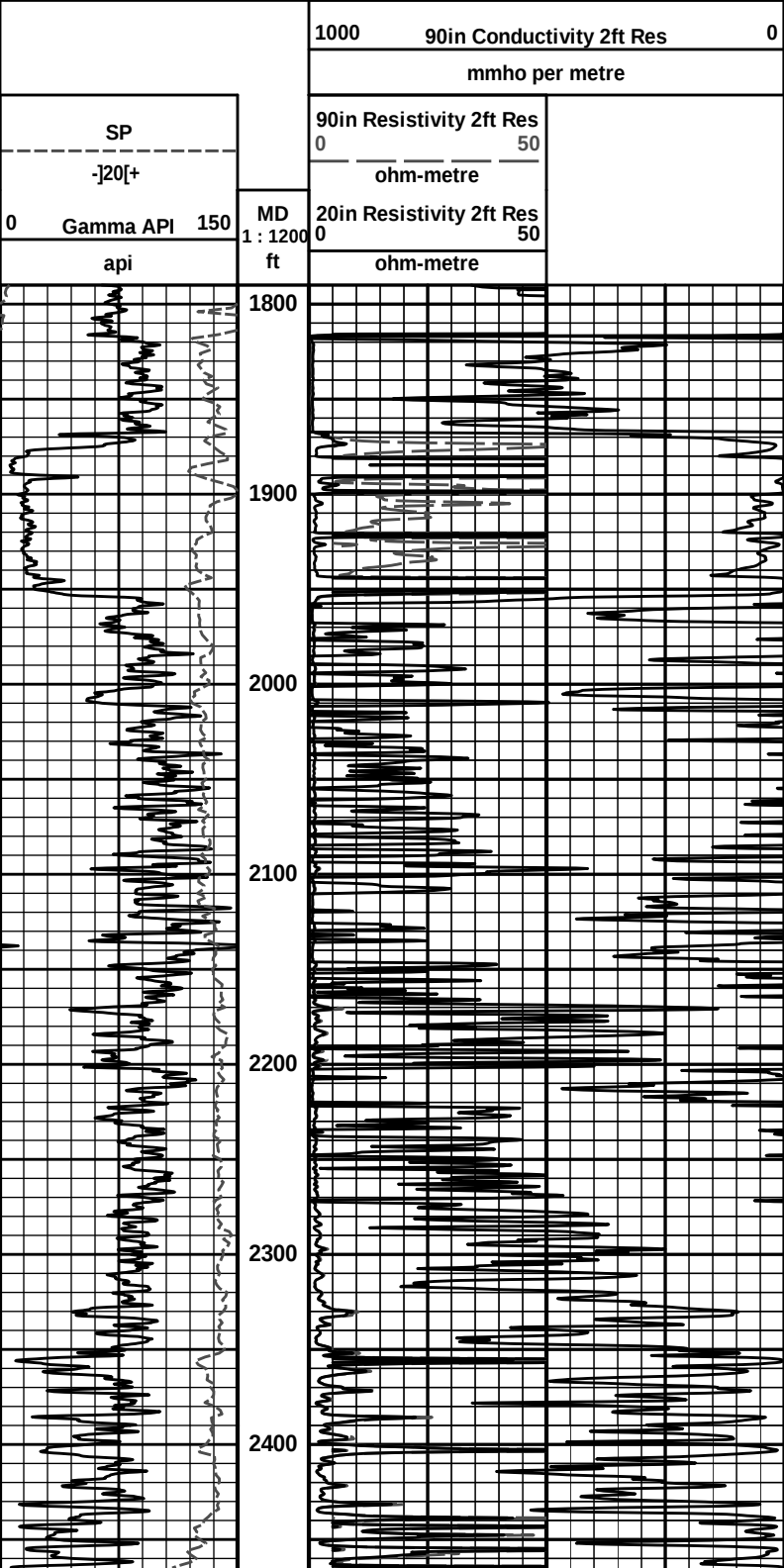
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	38.41	NO	
NAB	Near Above	38.24	BLK	0.920
NHI	Near Cesium High	38.24	BLK	0.920
NLO	Near Cesium Low	38.24	BLK	0.920
NVA	Near Valley	38.24	BLK	0.920
NBA	Near Barite	38.24	BLK	0.920
NDE	Near Density	38.24	BLK	0.920
NPK	Near Peak	38.24	BLK	0.920
NLI	Near Lithology	38.24	BLK	0.920
NBAU	Near Barite Unfiltered	38.24	BLK	0.250
NLIU	Near Lithology Unfiltered	38.24	BLK	0.250
FAB	Far Above	38.58	BLK	0.250
FHI	Far Cesium High	38.58	BLK	0.250
FLO	Far Cesium Low	38.58	BLK	0.250
FVA	Far Valley	38.58	BLK	0.250
FBA	Far Barite	38.58	BLK	0.250
FDE	Far Density	38.58	BLK	0.250
FPK	Far Peak	38.58	BLK	0.250
FLI	Far Lithology	38.58	BLK	0.250
PTMP	Pad Temperature	38.42	BLK	0.920
NHV	Near Detector High Voltage	37.81	NO	
FHV	Far Detector High Voltage	37.81	NO	
ITMP	Instrument Temperature	37.81	NO	
DDHV	Detector High Voltage	37.81	NO	
Microlog Pad				
TPUL	Tension Pull	38.60	NO	
MINV	Microlog Lateral	38.60	BLK	0.750
MNOR	Microlog Normal	38.60	BLK	0.750
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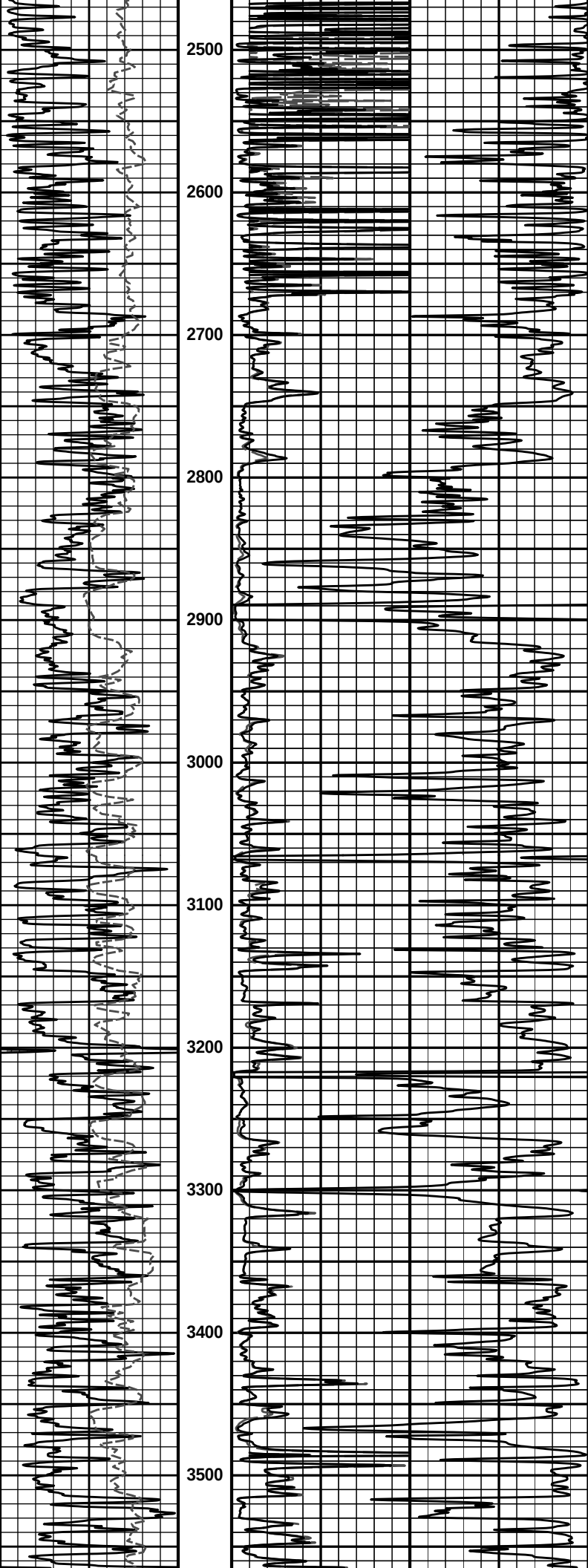
COMPANY	OXY USA INC
WELL	ANSHUTZ A-1
FIELD	SANTA FE NORTH

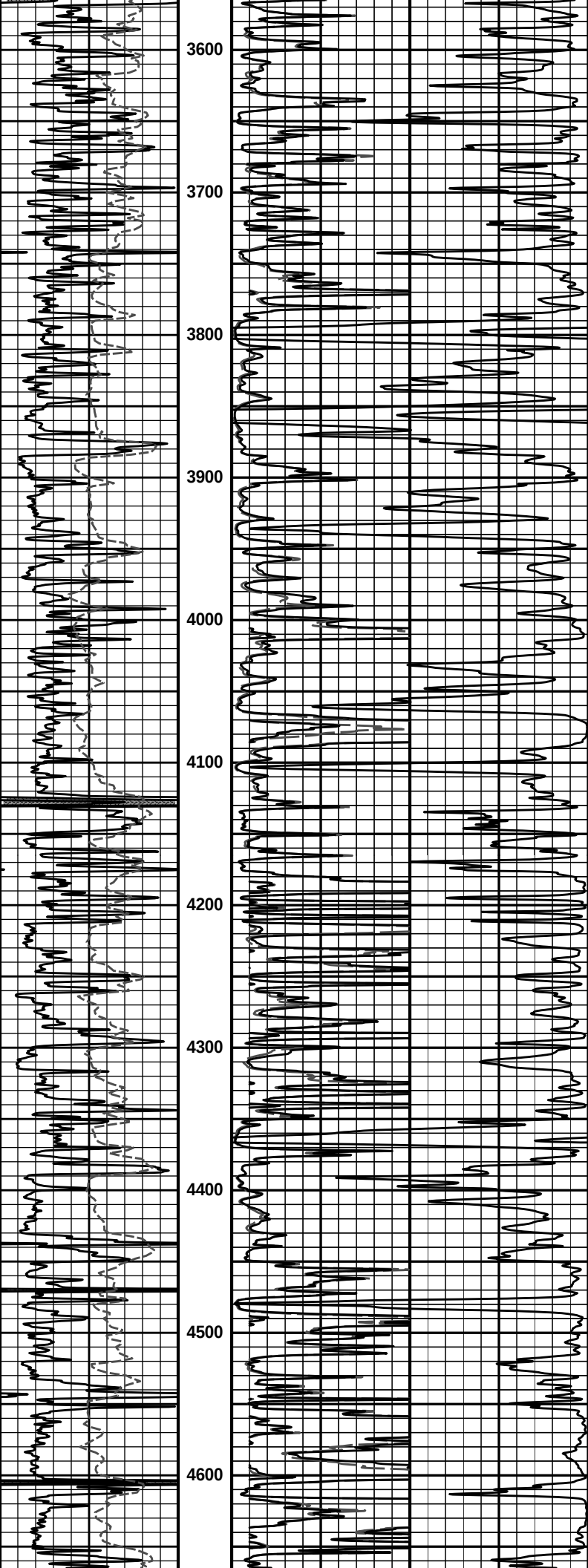
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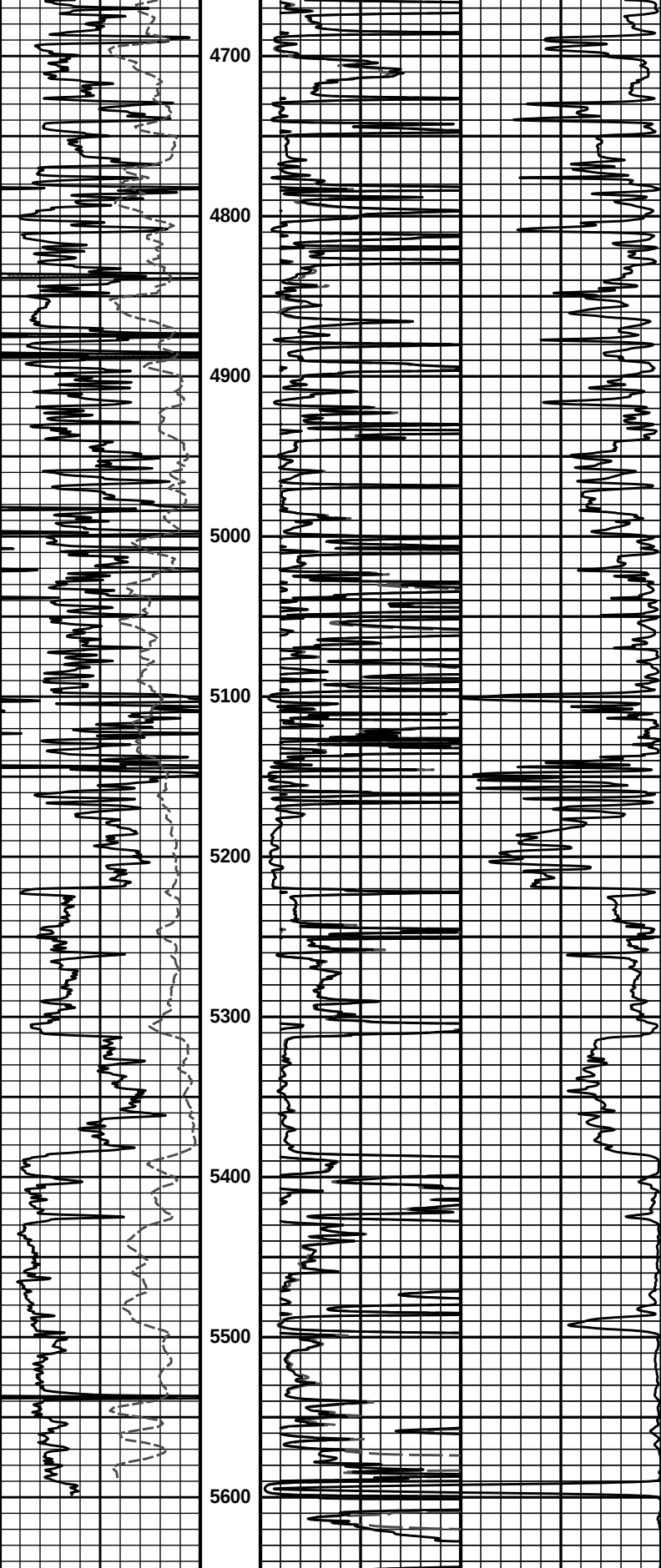
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Plot Range: 1790 ft to 5645 ft
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1 INCH MAIN LOG









0	Gamma API	150	MD	20in Resistivity 2ft Res	
	api		1 : 1200	0	50
	SP		ft	ohm-metre	
	-20[+			90in Resistivity 2ft Res	
				0	50
				ohm-metre	
				1000	90in Conductivity 2ft Res
					0

1000	90m Conductivity 2ft Res	0
mmho per metre		

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Plot Time: 21-Jul-12 17:01:17
Plot Range: 1790 ft to 5645 ft
Data: ANSHUTZ_A_1\Well Based\IR1_CASING\
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1 INCH MAIN LOG